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## Table of FOOD COMPOSITION



BUREAU OF HUMAN NUTRITION
AND HOME ECONOMICS

U. S. DEPARTMENT OF AGRICULTURE

United States Department of Agriculture



Advancing Access to Global Information for Agriculture

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## TABLE OF FOOD COMPOSITION FOR THE ARMED FORCES

Prepared by

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Bureau of Human Nutrition and Home Economics 1/ United States Department of Agriculture

Data on the composition of foods used by the armed forces are needed for dietary planning and for assessing the nutritive adequacy of rations used and of available food supplies.

This publication, prepared at the request of The Quartermaster General, presents composition data for some 800 food items in terms of proximate constituents, three minerals, and five vitamins. It includes special ration components used by the armed forces, for which the values have been based on averages of analyses or on calculations from the specifications for the item. Specification numbers and dates have been included for some items. The publication covers many foods common to both military and civilian users, for which values have been adapted from Agriculture Handbook 8 2/. In addition, figures for a few items have been compiled from published and unpublished data that have become available since the publication of Agriculture Handbook 8.

SIGNS AND SYMBOLS USED. Parentheses denote imputed values for which little or no experimental evidence was available, for which there was relatively little basis for imputing a value from another form of the food, or for which reported data were not considered suitable. A zero in parentheses is used where actual data were lacking and the amount of a constituent present was regarded as none or probably too little to measure.

Dashes show that no basis could be found for imputing a value although there was some reason to believe that a measurable amount of the constituent might be present.

The word "Trace" is used to indicate vitamin values that would round to zero with the number of decimal places carried in these tables. For other components that would round to zero, a zero is used. A zero followed by a decimal point indicates that there may be up to 0.5 of the unit present but bases for showing the amount were inadequate. Numbers with or without decimal points indicate that the average has been rounded to the nearest whole number or in the case of vitamin A to the nearest multiple of ten.

<sup>1/</sup> Acknowledgment is made to the Staff of The Quartermaster Food and Container Institute for the Armed Forces, Research and Development Branch, Office of The Quartermaster General for their cooperation in making available unpublished analytical data on the composition of ration components.

<sup>2/</sup> Composition of Foods-Raw, Processed, Prepared. Agriculture Handbook 8, 147 pages. June 1950.

Composition of Foods Used by the Armed Forces

2	Ascor- bic acid	Mg.	0	0 0	00	Trace	c	>	0)	0		Trace		0	0 0	o c	0	0	0	0 0	0 (	0	0 0	o c	00	00	,
pe	Niacin	<u>র</u>	8.7	7 %	23.5	0.9	7 7	5	14.2	13.5		12.8		18.6	ည်း	ا ا ا ا	20.4	21.2	18.1	8,0	χ. 4. γ.	16.8	19.4	ار ان در	19.3	20.2	22/-
purchased	Ribo- flavin	, M	0.54	<u>ئ</u> خ	1.11	•32	o 1	?	1.00	-82		•52		\$	ğ. 5	5.5	7/2	.79	.67	8	8	ည်	.72	4 %	72.	E.S	
food as	Thia-	· 877	1.73	1.62	4.15	8	ī	7.	•23	80	•	ဇွ		•33	<u>ښ</u> و	¥ 8	7%	, œ,	•33	32	<u>ښ</u>	٠ و	33	ڻ ٽ		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
pound of	Vitamin A value	I.U.	<u>()</u>	<u></u>	<u>e</u> e	910	7.	2/1	120	110		8,580		200	220	8 8	227	8	250	250	240	260	170	3 &	38	170	0/7
n of 1	Iron	· SW	3.6	w ~	15.0	10.4	300	776	(13.)	12.3		11.4		11.8	21:0	11 A	12.7	13.2	10.9	6.01	11. 20.	10.4	12.3	12.7	11.8	12.7	2
le portion	Calcium	<b>A</b>	29	35 A	28	工工	y	3	154	127		50		45	45	4 で 4	2 6	ZZ /	45	45	45	41	45	£ 2	4.5	· S. E.	+
in edible	Total carbo- hydrate	g	5.0	4.7	1.4	52.7	1	•	3.2	9.1	•	25.4		°	ဝံဝ		ó	o	0	o o	o o	°	0	ာ် င		0 0	3
Nutrients	Fat	ğ	295.	278.	8	41.8	ά,	2	49.5	92.2	,	26.3		99.4	109.0	200	200	40.9	125.3	124.4	117.6	129.8	84.4	0.69	2.6 0.0	17,50 8°0	1 2000
Mu	Protein	Ē	41.3	90 0 0 1	100.0	35.0	8	† †	9°201	91.3		51.8		77.2	5. 6. 6.	ر د الر	85.4	88.1	75.4	4.0	76.7	6.69	81.3		% % %	\$ F	2.
	Food en- ergy	Cal.	2,857	2,692	1,947	723	2.0	( <del>1</del> )	919	1,258	,	556		1,226	1,309	1,44	1,077	745	1,452	1,438	1,388	1,469	1,108	977	1,148	1,04	+000
-	in food as pur- chased	Pot.	0,	<u> ၁</u> င	00	0	c	)	0	0		0		0	0 0	o c	0	0	0	0 (	0 (	0	0	0 0	0	00	>
Water	of edible portion	Pot.	28.	85. 7.	56.	69.7	67.5	0.75	62.5	55•3		75.1		0.09	20 0 0	2 00	63.1	71.2	55-4	56.2	57.6	55•3	63.0	55.7	62.0	64.2	
	Food and description	NEAR, FISH, POULTRY, AND MIXTURES:	Sliced	Slab	Bacon, Canadian, raw	Beans with frankfurter chunks in tomato sauce, canned (MIL-B-1065A, 3-31-50).	Beef and corn. See Meat and corn.	(JAN-B-723, 1-27-49).	Beef and pork dinner, canned	(JAN-B-618, 5-27-48). Beef and pork loaf, canned	(JAN-B-753, 4-21-49).	Beef and vegetables, with gravy, canned (JAN-B-736, 2-25-49).	Beef, boneless, frozen (4-way) (MI-B-10017, 10-22-49):	Diced	Ground	noasts or steaks, dry near	Inside of remo	Knuckle of round	Loin strip	Sirloin butt	Spencer roll	Tenderloin	Roasts or steaks, moist heat	Chuck roll	Clod	Outside of round	

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Beef, carcass or side, including kidney

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Composition of Foods Used by the Armed Forces-Continued

	Water	Refuse		Nut	Nutrients	in edible	e portion	of 1	pound of f	food as I	purchased	70	
Food and description	of edible portion	in food as pur- chased	Food en- ergy	Protein	Fat	Total carbo- hydrate	Calcium	Iron	Vitamin A value	Thia-	Ribo- flavin	Niacin	Ascor- bic acid
MEAT, FISH, POULTRY, AND MIXTURES	Pet.	Pct.	Cal.	ÇB.	है	ê	뾝	· Mg	I.U.	-SM	¥ ¥	· ऑ	뛝
Beef, hindquarters, boneless, frozen	59.8	0	1,232	80.4	98.5	•	45	12.3	200	0.35	0.72	19.3	0
(JAN-B-7/73, 5-10-49).  Beef, parboiled and steam roasted, canned (JAN-H-701 6-16-40)	57.3	0	1,107	122.1	64.9	ó	100	17.7	100	60.	.82	16.8	0
Beef stew, canned (MIL-B-3045, 9-16-49)	75.1	0	556	51.8	26.3	25.4	22	11.4	8,580	89.	.52	12.8	Trace
Beef, canned, strained (infant food)	6.77	0 (	476	0.61	15.4	<b>o</b> 0	 요	19.1	8	ည် ရ	\$ 8	15.1	0
Bluefish, whole, raw	78.2	<del>1</del> 0	1 22/2	65.4	y 00	11.4	2,%	10.0	(O)	74.	18.	4 11 0.8°	0
Brains, all kinds, raw	78.9	00	767	47.2	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3.6	73	16.3	30,280	1.0°1.	1,18	20.2	82
Cervelat sausage (PP-S-74A, 2-22-43): Type I dry	29.4		2,046		170.7	7.7	\$ 3	16.8	(0)	1,23	1.0	25.0	0
Type II, soft	48.2		1,401	87.2	111.7	5.4	20	13.2	(6)	, E	1.41	20.0	0
Broilers	î	Ļ	Ç	u C	Q S	C	Ü	o c	ą	5	Ş	n c	(3)
Pressed	71.2	£ 1%	547	5,88 5,4	24.5	. °	<del>υ</del> 8	5,0	26	7.82	\$ rc.	2. × 4. · · ·	<u>©</u>
Hoasters: Dressed	0.99	23.33	72.52	56.0	¥4 6.1	00	63	5.5	1,130	2, 2,	.45	28.2	<u>©</u>
Hens and stewing chickens:  Dressed	55.9	88	1,098	52.4 65.3	72.8	00	41	4.4	2,350	¥ &	.59	23.4	<u></u>
Fryers (cut-up pieces): Breast Leg	74.9	\$ £	359	80.4	1.7	00	48	6.00 6.00	3 8	.35	0, & 0, E	36.1	<u>©</u>
Chicken, boned, canned: Meat only Solid pack (MIL-C-1058A, 4-13-50),	61.9	00	905	135.3	36.3	00	44	8 8	880 1,250	71.	4%	28.8	000
Type 111, total contents of can. Chicken and vegetables, camed (JAN-C-673, 9-17-48)	73-4	0	642	40.4	35.4	37.7	91	5.0	8,400	.23	.36	10.0	Trace
Chicken broth. See Miscellaneous, soups, bouillon.													

1	1111	ω <u>Θ</u> <u>Θ</u>	1111	©©	ł	0 0 0	0       0	0 00 0
10.2	(2.5) (1.2) (7.3) 4.9	9.0	5.9 (11.3) 2.8	16.4 21.5 4.8	13.8	3.0 12.3 6.0 Fr	24.0.4 0.0.4 0.0.0 0.0.0	10.4
文	8484	2.04	¥ & & &	90.1.29	¥	8.4.6	7. 44. 50. 1. 80. 1.	¥ 51.89 8è
80	31. 88. 4.(£5.)	48.8	£3.8.4	8,8,8	12.	.283	45.	28.23
069	170 80 500 (360)	000	1111		l	(0)	(0) 0 1,620 2,590	(0) (0) (0)
6.4	(11.1) (5.4) (31.8) 28.6	16.3	(3.6)	4.4	4.1	10.4	10,01,00	6.4 7.3 5.9
173	(153) (74) (436) 395	(227) 36	(177)	53	118	108	32 53 195	59 154 41
26.3	2.2.2. 4.2.2. 4.0.0.	000	2.7	000	°	0.11.8	0.01	37.2
67.2	4.5 4.5	1.7	0,000 0 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0 0,000 0	83.2 109.0 31.4	1.4	104.4	88.1 .9 .19.1 83.1	40.4 85.8 47.2 135.7
46.8	20 4.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	68.1 371.4 131.7	35.1 76.7 27.4	46.6 61.0 64.2	122.6	26.4 68.6 35.0	57.7 4.88 5.4.4 6.5.4	53.1 99.9 62.2 69.0
907	33 86 65 82	306 1,700 591	187 389 471 148	1,244	536	121 1,280 723	1,080 215 171 464 1,052	730
0,	0033	600	52 0 66	8514	0	61	35 52 19 0	0 00 0
6.99	80°.3 80°.3 86.7	82.6 12.3 52.4	80.0 80.0 77.2	744.7	70.	82.7 56.3 69.7	63.2 80.7 75.4 63.9	68.6 55. 53.5
Chicken soup. See Miscellaneous. Chile con carne (without beans), canned (MIL-C-1381, 9-12-49).	Clams in shell; refuse, liquid, shell: Long clams (soft shell) Round clams (hard clams, quohaugs) Clams, meat only Clams, canned, solids and liquid	Raw, steak; refuse, bone	In shell; refuse, shells	Dressed	Fish, flaked, canned (FP-F-371, 3-31-31), Type III, cod and haddock.	Fish. See kind, as Bluefish, Cod, etc. Flounder, summer and winter, whole, raw Frankfurters, raw	Frankfurters, canned (MIL-S-3069, 10-26-49) Frog legs, raw Haddock, whole, raw Halibut, steak or section, raw Halibut, steak or section, raw Fan and eggs, chopped, canned	Ham and lime beans, canned (JAN-H-519, 5-27-48).  Ham chunk, canned (ML-H-1021A, 5-16-50)  Ham chunks with candied sweetpotatoes, canned (JAN-H-720, 1-27-49).  Ham, deviled or minced, canned

	Ascor- bic acid	· Sign	0	0)	0)	27	5	)	27	27	1	1	ı	1	1	> <b>!</b>		23	23	<u></u>	>	c	0	0
pq	Niacin value	· M	14.5	13.1	48.3	11.3	25.2	20.0	23.6	27.5	8 i	/•۲۲	0.8	7.7	(0.01)	(13.2)	`	29.5	4.0	33.6		ת	16.1	13.8
parchased	Ribo- flavin	i N	0.74	.61	1.60	55.	00 1	3.71	4.12	5.63	£,0	8	\$3	.41	<u>ئ</u>	1,2	•	11.58	2.88	11.00 R	3	75	8.8	52
food as	Thia-	Mg.	2.04	.12	•56	ୟ	2 65	ह	. B.	**************************************	ပ် င	2	8	چ:	3 6	Trace		1.70	2.65	2.32	:	œ.	5 6	-43
pound of	Vitamin A value	I.U.	(0)	40	310	40	740	1	240	9	270	250	(250)	(450)	<del>2</del> 5	30		5,220	590	(5,220)	2	1	1	1
n of 1	Iron	, Sign	10.4	5.9	22.2	5.4	6	16.3	7.7	12.3	9,1	, ,	1.3	2.3	1 6	(6.4)		35.9	8	41.0		~	φ. 1 π.	7.4
le portic	Calcium	潮	41	118	204	82	5	1 2	क्र	159	ì	ł	8	X	1	300	`	41	2	ይ%	ξ.	5	4 K	23
Mutrients in edible portion	Total carbo- hydrate	Ġ	1	32.7	111.2	40.9	2,0	1 0	7,00	Σ. I	00	ċ	°	o o	္ င	်ဝ		4.1	ۍ ص	4.0 7.0		c	ó	°
trients	Fat	اق	95.	27.7	89.4	25.9	2,4	11.4	31.8	21.0	8,7	20.00	17.3	800	0.1	186	, ,	36.8	8 :	ان د برا د بر		16.2	86.1	146.5
Ma	Protein	G.	6.69	62.2	187.5	44.5	1, 1	, & , &	23,	7.01	42.5	٠ <u>٠</u>	47.0	2 2	7,00 4,00	100.00	;	28.1	74.0	4.0	ţ	с С	55.6	47.8
	Food en- ergy	Cel .	1,155	641	2,036	281	[0]	366	713	531	443	8	357	637	672	35		633	518	475	7076-	246	1,122	1,526
Refuse	in food as pur- chased	Pet.	0	0	O.	0	c	0	0	0	49	>	4	0 (	<b>&gt;</b> c	0		0	0	0 0	>	23	7 27	139
Water	of edible portion	Pct.	59.6	70.4	9.9	73.0	776	82.7	9.69	ν.ο. Σ	67.2	7./0	74.0	74°C	0.00 0.00	20.19		74.9	77.1	77.8	2017	66.3	55.85	46.2
	Food and description	MEAT, FISH, POULTRY, AND MIXTURES		Hash, corned beef, canned	Hash, corned beef, dehydrated, camed (JAN-581, 9-30-48).	Hash, meat and vegetable, canned (MIL-H-1081A, 3-30-50).		Calf. canned. strained (infant food)	Chicken, raw	Pork, raw	Herring, Atlantic, raw:	Flesh only	Whole	Flesh only	Herring, Pacific, flesh only, raw	Herring, smoked, kippered	Kidneys, rew:	Beef	Pork	Sheep	Lamb	Carcass or side, raw:	Medium fat	Fat

0000	140 162 91 152 152	99   1°	1 1111	Trace Trace 0
64.45 6.45 6.45 7.	62.1 73.1 76.0 28.9	34.5	28 89 6 28 6 6 7 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	12.2
\$35.6	15.10 14.18 13.54 14.90 9.69	66.93	8. 96.11	16. 63.
8481	84.08.18	1,000	8 8184	6. 49. 0i.
1111	199,300 102,150 146,190 64,470 229,270 87,170	27,640 30,280 	(1,110) 1,970 1,680	320 330 120 1,860
10.2 7.6 8.3 10.4	30.0 48.1 33.6 81.7 32.2	24.5 2.6 2.0 3.0 3.0	2. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.	8.2 8.6 10.0
33 33 38	27.27.27 20.09 20.09	44 292 14	12 840 1,180 177	8345 88
0000	27.2 118.2 11.3 13.2 4.5	0 0 1 0 0 0 1 0	0.00.00.00.00.00.00.00.00.00.00.00.00.0	37.2 28.6 35.0
66.0 111.8 91.8 20.4	22.22 18.22 17.71 17.71	109.0	29. 50.4 45.4 11.4.0	70.4 37.2 36.8 22.7
67.9 51.4 56.6 70.8	869 4.00 4.00 4.00 7.00 7.00 7.00 7.00 7.00	8.267 8.36.88 8.3.4.76 6.76.9	87.8 87.8 845.9 8.5.9	48.0° 4 6.8° 7.
1,070 1,070 486	6.18 6.39 6.18 6.18 8.88	1,195 1,330 144 417 1,310	457 829 819 1,387 580	1,033 797 692 600
7,480	00000	00400	94 0000	000 0
53.7 78.3 78.3 78.5	600000 60000 60000 6000 6000 6000 6000	59.0 79.1 77.2 55.2	68.1 66.0 66.4 71.8	60.4 (4.3 71.1
Retail items 1/, medium fat, raw; Leg roast (wholesale leg) Rib chop Shoulder roast (wholesale 3-rib) Canned, strained (infant food) Lamb and vegetable soup, canned, strained (infant food). See Miscellaneous.	Liver, raw:  Beef Calf Chicken Pork Sheep or lamb Liver, canned, strained (infant food) Liverwurst; liver sausage	Type I, fresh  Type II, smoked  Lobster, whole, in shell  Lobster meat, canned  Luncheon meat, canned (MI-I-1080A, 6-21-50),  Type I, pork.	Mackerel: Rew, common Atlantic, whole Canned, total contents of can; 2/ Atlantic Facific Salted West and beens with tomato sance, canned (MI-M-1106A, 12-14-49).	(MIL-M-1046A, 2-28-50): Type I, pork and corn  Type II, beef and corn  Meat and noodles, carned (MIL-M-1025A, 2-28-50). Meat balls and spaghetti, canned (JAN-M-682, 9-30-48).

1/ Values for raw items are from the medium fat wholesale cuts considered to be nearest approximations for indicated retail items.

2/ The vitamin values are based on the drained solids. The vitamin values are based on the drained solids.

3	Ascor- bic acid	N N		00	1	1 8	00	(3)	9			0	0	0	•	o c	) C	0		0	0	0	00
pe	Niscin value	Mg.	•	55.8	5.4	10°C	φ.	l	4 v		,	6.4	13.0	21.5	1	15.7	10.4	8		15.6	17.9	ည္	0, W 0, W
purchased	Ribo- flavin	Mg.		1. 2. 12.	%	8.9	₩- <b> </b>	3	ठं		,	1.16	1.07	1,26	٠	<u>.</u> 4	7	%		÷7.	ش	1.03	% 61.
food as	Thia-	Mg.		84	99•		1.50 	8	8		•	න <u>්</u>	8.	1.57	i i	2.°°	1, 0, 1	.67		2.76	3.17	3.52	1.21
pound of	Vitamin A value	I.U.	,	2,300	1,450	1,450	<u>e</u> e	3	9			2,920	150	(0)	(3)	96	96	4,270		(0)	<u></u>	(O)	<u>©</u>
on of 1	Iron	Mg.		92,5	25.4	27.2	0 !	ι	4.0			12.7	6.4	7.7	1	0,0	, , ,	10.4		6.6	11.4	12.3	23.00
in edible portion	Celcium	潮	6	163	427	127	13	,	\$		•	218	R	29	ć	3, <sub>C</sub>	3 K	3.5		40	45	41	Trace
	Total carbo- hydrate	<u>.</u>	,	44.0	25.4	20.4	· (;	7	73.4			4.5	6.4	ô	(	ာ် င	ć	15.0		(1.2)	(1.4)	°	00
Nutrients	Fat	5	1	207.0	9,5	11.4	37.6	ŀ	12.4			14.0	76.3	27.2	(	2,6	225	126.7		138.	159.	103.1	321.
Mo	Protein	S S	1	205.2 46.3	44.5	37.7	32.1	0	20.0		,	0.69	72.6	77.6	l l	がなって	707	74.0		8.99	76.7	103.5	26.2
	Food en- ergy	Cal.		2,743	380	340	72 72 72 73 73	1	1,02,1			1,343	1,024	577	100	1,9397	100.0	1,516		1,535	1,767	1,372	3,007
R	in food as pur- chased	PC		00	0	0,	۶\$	(	0			0	0	0	c	2 E	1 5	0		13	0	0	<b>~</b> 4
Water	of edible portion	Pot.	:	72.4	80.5	81.7	57. 66.9	[	7-76			55.7	63.5	75.7	e I	, ç	, K	49.7		42.	42.	47.8	14.
	Food and description	MEAT, FISH, POULTRY, AND MIXTURES	Mest food product bar, dehydrated (QMC Pur. Descr. 8-10-50);	Types I and II Neat, ground, and spagnetti, canned (MIL-M-1078A 3-24-50)	Oysters, shucked, meat only	Oysters, canned	Pigs' feet, raw Pigs' feet, pickled	Filchards, canned, See Sardines,	Fork and applesance, canned (MIL-F-10764, 2-9-50).	Pork and corn, canned. See Meat and	corn, canned.	Pork and eggs, chopped, canned (JAN-F-724, 1~27~49).	Pork and gravy, canned, Type II, unbraised	Pork, canned, strained (infent food)	Pork, carcass, packers', fresh:	This		Fork, corned, with carrots and apples, canned (C.Q.D. No. 383, 8-3-45).	Pork, cured: Hom emoled 1 / (medium fet) rew.	With bone	Without bone	Ham, boiled, sliced	Medium fat

00	00	0000	0000	00	36	<u> </u>	<u> </u>	<u>©</u>
13.7	10.0	15.4	15.9	24.1	29.0	33.22.1 33.22.23 33.22.23	(17.8) 21.7 17.8	(33.6)
.65	24.8i	88.54	6.4.4.4.	1.14	.93	<u> </u>	3,62	1.38) (3
2.41	3.48	2 2 3 8 8 6 7 9 9 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9	2.62 2.98 2.66	1.68	.41	2112125	8.6%	.05) (1.38)
<u> </u>	<u>©</u> ©	<u> </u>	<u> </u>	<u></u>	1,270	1,060 1,060 1,060	1,000	(120)
3.8	5.9	9.01	8 6 9 8	16.3	(3.6)	4 4 4 4 6 4	15.9	(18.6)
362	Trace 43	33.34	2882	45	1	3/1,130 3/1,053 3/1,053 3/1,176	1,607	(1,730)
(1.2)	• •	0000	0000	4.0.0	°°	ଜାନାଜାନାନା	4 7 4 7 4 7	3.2
176.	236. 99.	121. 141. 92.	148. 168. 87. 123.3	173.0	66.7	23.6 23.6 28.1 43.6	122.6 49.9 40.9	61.3
58.4 66.3	38.4	59.3 69.0 55.1	4.0% 6.0% 7.7.4%	108.1	70.3	89.4 97.6 93.1 1.7	95.8 116.7 95.6	80°0 80°0 80°0
1,842	2,293	1,345 1,566 1,088 1,309	1,566 1,777 954 1,346	2,043	902	\$23 \$21 \$21 \$21	1,534 971 796	983
120	7.5	4058	12 0 0 17	00	11	00000	0081	0 0
36.	¥3.	% <b>%</b> % %	52.55	29.8	63.4	45,05,0 7,85,05,0 1,85,05,0	47°1 57•4 57•4	65.2
Shoulder, smoked (medium fat), raw: With bone Without bone	Pork cuts, fresh 1/ (medium fat), raw: Belly Boston butt	With bone Without bone Lein or chops	With bone Without bone Spareribs Miscellaneous leen cuts 2/	Type I, dry	Raw, Pacific (Chinook or King), steak	Canned, total contents of can(including bone); Chinook or King Chum Cobo or silver Fink or humpback Sockeye or red	Atlantic type, camed in oil:  Total contents of can  Drained solids, 1 pound, E.P. 4/  Solids from total contents of can;  refuse 18 percent liquid.	contents of cen:  Natural pack

Values for raw items are from the medium fat wholesale cuts considered to be nearest approximations for indicated retail items. Lean cuts from medium fet carcass. Excludes lard, bacon, salt side, and fet back.

If bones are discarded, calcium content would be much lower. Bones equal about 2 percent of total contents of can. Not on as purchased basis.

Composition of Foods Used by the Armed Forces--Continued

	Ascor- bic acid	· M	00	000	1 1	1 1 1	21	10	<u>©</u>	<u> </u>	<u>©</u>
ed.	Niecin value	Mg.	13.6	13.6 12.3 12.7	6.4 (18.4)	10.1 6.2 10.0	11.6	41.3	21.6	(48.8) 58.3 50.1	24.3
purchased	Ribo- flavin	Mg.	1.09	1.09	4%	24.6	坟	.22	1.2	(.44) (.53 .45	. 52
food as 1	Thia- mine	Mg.	0.91	168.8	(*18)	ষ্ষ্ষ্	8.	প্ ৪	•53	(•19) •23 •20	32
pownd of	Vitamin A value	I.U.	(0)	<u>©</u>	0	250 270 270	10,500	7,200	<u>©</u>	(990)	1 1
n of 1	Iron	Ą	10.0	10.4	8,2	.8°.2 1°.6 1°.6	15.9	4.1	12.1	440	11.6
in edible portion	Calcium	· Ne	118	388	118	268 340	163	28 &	39	32 (36) 31	85
	Total carbo- hydrate	ė	5.4	0 0	15.4	1.4	37.7	5.4	1.7	000	0 0
Mutrients	اجا ش ئې	eg.	117.6	117.6	2,12	9 4 4 4 4 8	23.6	18.2	65,	94.9 37.2 32.0	61.4
Mat	Protein	GB.	90 % 10 m	69 65.29 65.8	67.2	121.7 84.9 87.6	52.7	87.2	70.7	108.1	61.1
والعديد والمعارد والعمارة والأوارات	Food en- ergy	Cal	1,358	1,359	355	5777 405 390	577	536	892	1,318	986
Refuse	in food as pur- chased	Pet.	00	000	52	000	0	00	NO	0 0 41	1933
Water	of edible portion	- 43 - 43 - 43 - 43	5.25.4	50°0°4 4.0°0°4	80.3	65.2 75.6 77.3	72.7	75.8	68. 52.2	52.5	78.3
	Yood and description	MEAT, FISH, POULTRY, AND MIXTURES-	Sausage patties, pork, canned (MIL-S-3252, 7-28-50); Type I, without gray	Canned (MIL-S-1104A, 3-30-50): Type I, meat (bulk) Type II, links Snoked	Braunschweiger, Cervelat, etc. Scallops, raw (edible muscle) Shad or American shad, raw, whole	Shring, canned:  Dry pack or drained solids of wet pack.  Wet pack, total contents of can  Shring, frozen (MIL-S-3051, 9-23-49)  Stew, beef, canned. See Beef stew,	Stew, meat and vegetable, canned	Swordfish, raw, flesh only	Tongue: Raw, beef, medium fat	Tuna fish, canned: Total contents of can  Drained solids, 1 poind, E.P. 1/ Solids from total contents of can; refuse 14 percent liquid.	Turkey, rem:  Dressed, medium fat  Ready-to-cook

(0)	000	000	00000	0	000	000	0	<u>ම</u> ෙම
16.6	23.1 23.0 22.8	30.0	29.6 23.6 27.8 25.0	u,	.5 Trace	1000	ŵ	0.4 0.0 1.
•75	.92	1.19	81.1 94. 01.1 65.	1.17	1.32	5.63 9.31 4.79	3.02	2.77
Ř.	888	200	25644	•39	.45	1.57	2.26	5.81.
1	1 1 1	111	0	4,590	5,180 (0) 14,590	17,510 0 16,970	25,170	(5,630) (4,630) 6,360
17.3	10.5	13.6	1 10 1 10 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10.9	12.3	41.3	62.7	(2.3)
73	33	2222	84848	218	245	890 218 863	1,280	1,430 477 3,292
°	000	ဝီဝီဝီ	0.00	2.8	000 000	12.3	5.3	000 0 4 0 0
55.4	28. 43. 59.	3.45.	41. 36. 77. 88.1	46.5	52.2	196.6	277.8	138.5
100.8	69 68.6 1.	86.7 4.0 4.0 4.0	88.5 70.4 83.1 72.6 57.7	51.7	58.1 49.0 74.0	218.8	141.6	97.6
930	823	706 857 1,017	748 625 1,049 380 1,080	655	736	2,773 1,806 2,689	3,145	1,669 1,356 1,806
0	23 21 19	000	00000	11	000	000	0	000
64.0	71. 68. 65.	71.	70. 70. 64. 81.2 63.2	74.0	74.0 87.8 49.4	တွ ကို ကို	ů	40. 52.2 37.
Turkey, boned, canned, with broth (MIL-C-1058A, 4-13-50).	Veal, raw: Carcass or side excluding kidney fat: Thin Medium fat Fat Carcass or side excluding kidney fat,	Thin Medium fat	Cutlet, boned (wholesale round) Shoulder roasts (wholesale chuck) Stew meat, without bone Veal, canned, strained (infant food) Vienna sausage, canned (MLL-S-3069, 10-26-49).	EGGS:  Eggs, hen, fresh or stored:  Whole; refuse, shells	Whole	Type II, egg white	Egg yolk, hen, dried	MIK AND MIK PRODUCTS OTHER THAN BUTTER: Cheese: Blue moli, domestic type Camembert Cheddar

1/ Not on as purchased basis.
2/ Values for raw items are from the medium fat wholesale cuts considered to be nearest approximations for indicated retail items.

	ant	Refuse in food	β	Mut	Mutrients	in edible	le portion	of 1	1	food as	purchased		
	of edible portion	as pur-	Food en-	Protein	Fat	Total carbo- hydrate	Calcium	Iron	Vitamin A value	Thie-	Ribo- flavin	Niacin value	Ascor- bic acid
MIK AND MIK PRODUCTS OTHER THAN BUTTERContinued	Pet.	Pct.	Cal.	Gm	e e	E	· M	- श्र	I.U.	Mg.	şi Şi	M.	Mg.
Gheese, dehydrated, process, bulk	4.0	0	2,683	168.4	217.0	14.5	4,890	6.4	9,440	0.12	2.96	0.1	0)
Cheese foods, cheddar	43.	00	1,479	93.1	109.0	31.8	2,588	3.2	4,860 (5,900)	(.i.)	2.62	.7	<u>©</u>
(MIL-C-10381 (Q.M.C.), 7-14-50).  Cheese, processed, with bacon, canned (MIL-C-10381 (Q.M.C.), 7-14-50).  Cheese spreads. See Butter and other	38.0	, O	1,759	105.8	144.4	9.8	2,833	5.0	5,460	.25	1.83	1.7	0)
spreads. Cottage, from skim milk	76.5		433	88 0.04	2.3	9.1	436	1.4	(90)	နှင့် နှင့်	1.39		<u>©</u>
	3.45	000	1,567		127.1	10.0	2,679	1.8	(4,810)	ું સું ક	3.31	1.00	<u> </u>
• • •	4.9		1,689	124.8	127.1	7.7	4,200	4.1	6,580	ల్ల ల్ల	(1.82)	(.2)	<u>©</u>
Light, table or coffee (20 percent fat) Heavy or whipping (35 percent fat)	72.5	00	925	13.2	90.8	18.2	440 354	ůά	3,750	4.1	44	4.0	ъw
Plain	62.1	0	938	18.2	56.8	93.5	558	ιĊ	2,360	•19	8.	ů.	72
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28.0	00	2,303	52.7 41.8	126.7	249.2 178.9	1,911	ڡ۠ٮڽ۫	5,210	.41	2.25	1.1	5 6
Fluid (pasteurized and raw): Whole Nonfat (skim) Buttermilk, cultured (made from skim milk).	87.0 90.5 90.5	000	309	15.9 15.9 15.9	17.7	22.2 23.2 23.2	536 558 (536)	w w w	(720) (20) 20	.16 .16	.78 .81	மீ மீ மீ	999
Canned: Evaporated (unsweetened)	73.7 27.0 83.0	000	625 1,455 336	31.8	35.9	44.9 248.8 48.1	1,103	۵ ف <b>ش</b>	1,820 (1,930) 410	845	1.63	ڡٛ؈ٛۺ	היהיה

₩ C C ++	2			000	0000	00000
884			1 1			
20.00	ιċ	1.3	6.6.	4. 4.	1 22.1	0.0.0.
6.63 8.88 6.72	.77	2.43	.66	8. 1. 2.	76.88.8	(0) 0.16 0.14
1.38	.15	.30	2.24	412	.28	(0) 0. 0. 0. 0.
6,360 (190) 2,910	2,230	4,640 1,140 (720)	220	13,010 2/15,000 20,080	9,230 8,850 8,490 7,840 3/15,000	(0)
2.6	ů	2.1 4.1 7.	r.	0° 0°	3.00.00	0.0.4
4°308 4°308 4°308	490	1,303 613 586	232	713 91 77	1,539 1,389 1,280	(0) 080 170
172.5 236.1 253.8	20.4	321.0 53.6 20.9	23.2 328.7	32.2 1.8 1.4	8.6 1.8 1.8 1.8	92,2 0. 13,6 0. 63.1
121.2 4.5 55.8	54.5	38.6 20.0 18.2	1.4	268.8 367.7 367.7	221.6 222.0 219.3 202.5 367.7	161.2 454.1 354.1 167.1 454.
117.1 161.6 107.6	14.5	66.3 20.9 15.0	4.1	2.7	51.8 56.8 57.7 54.5	0.0000000000000000000000000000000000000
2,233 1,643 1,932	620	1,850 472 305	120	2,580 3,251 3,251	2,202 2,198 2,134 2,114 3,269	1,788 4,095 3,212 4,013 1,743 4,013
000	0	000	00	000	00000	000000
	79.7	2.6 78.2 87.4	93.2	28.4 15.5 13.	8.4.8.4.1. 8.7.4.0.1.	39.6
Whole Wolfat solids (skim)  Monfat solids (skim)	Half and half (milk and cream)	Matted 1/: Dry powder or tablets Beverage Milk, goat, fluid	Fluid Dried	Army spread, canned (JAN-S-1032, 3-25-49).  Butter Carter's spread, canned (JAN-S-1032, 3-25-49).  Cheese spreads, canned (made with butter	and cheese) (JAN-C-595, 5-12-48): Plain With bacon With ham and relish Oleomargarine (Q.M.C. Pur. Descr. 11-29-49)	Prench dressing  Lard  Mayormaise Oils, salad or cooking Salad dressing (commercial) Shortening products (vegetable fat)

<sup>15,000</sup> L.U. of vitamin A added per pound. The minimum Federal specifications for fortified margarine require the addition of 9,000 L.U. of 1/ Based on unfortified products.
2/ Year-round average.
3/ Based on the average vitamin A content of fortified margarine. Most of the margarines manufactured for use in the United States have vitamin A per pound. The unfortified margarine contains a negligible amount of vitamin A.

	Ascor- bic acid	Mg. 8	} ;	(0)	Trace (0) (0)	<u> </u>	0	0	0,0	0 0	0	0	0	0
d.	Niacin	版· 0.7	1 1	Trace	w w w	1008	6.4	3	9 9 9 9	2.1	1.6	4.1	1.4	1.6
purchased	Ribo- flavin	Mg. 0.09	8 8	Trace	1.73	100	1.36	3	(6)	1.43	.16	1.23	.91	•59
food as	Thia-	MR. 0.05	1 1	10	8.4.6.	।ତ୍ତ <sup>ି</sup>	i 2	3	(S)	1.91	1 1	12.	.36	•31
pound of	Vitamin A value	1.U. (0)	1 1	(0)	650 650	909	Trace	3	(0) Trace	40	0	590	Trace	89
n of 1	Iron	路。 2.7	3.6	8.2	10.4	166	9.5	3	(1.8) (1.8)	3.2	(4.5)	4.5	1.8	4.1
le portion	Calcium	· 多	377	91	572 981 935	000	5/7	3	4	1,040	5 5	781	763	622
in edible	Total carbo- hydrate	<u>GB</u> .	364.1	365.9	351.8 252.9 227.0	327. 413. 368.	222.5	1	44 5.0.1 5.0.1 5.0.1	260.6	290.6	264.7	316.0	273.8
Mutrients	Fat	<b>副</b> 3.6	4.1	40.4	52.7 152.1 175.2	63.6	134.4	(	0 0 55.8	117.6	111.2	146.6	92.6	136.7
Mu	Protein	Gin.	ن د د	0 11	13.2 (27.) (36.3)	13.6	79.0		0 0 19.1	7. 2.	14.5	30-4	13.6	27.2
	Food en- ergy	<b>Cal</b> .	1,424	1,42,4	2,283 2,414 2,414	1,791 1,598 1,477	2,294	1	1,740	2,217	2,095	2,289	2,093	2,304
	in food as pur- chased	Pet.	0 0	000	000	0000	0 0	•	000	0 0	o o	0	0	0
Water	of edible portion	Pet. 53.1	18.0	17.4	7.0	စ္တွ္ င္ရီ (	2.1	•	0.1	1 1	7.0	1.0	1.5	1.2
	Food and description	SUGARS, SIRUPS, AND OTHER SWREDS: Apple butter	Candy, commercial: Candied or glace peel: Citron	Lemon, orange, or grapefruit peel Butterscotch	Chocolate, sweetened, milk	Chocolate creams Fondant Marshmallows	Candy, armed forces: Almond chocolate bar (with special	protein) (MIL-F-2413, 9-5-50). Candy, hard, nonsugared (MIL-C-3034, 8-30-49):	With ascorbic acid	Chocolate bar, sweet (with special protein) (MIL-F-2413, 9-5-50).	(AI-1 Fur. Descr. 5-16-49). Chocolate covered coconut bars	(MIL-C-1424, 9-30-49). Chocolate crisp	Chocolate drops, pan-coated	(MIL-(-3045, 9-15-49). Chocolate sticks (AT-1 Pur. Descr. 5-16-49).

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	1.7	1.3			1.7	1.4	-	<u></u>	Trace	ע		0		0	25.6	ڻ	0	1	(3)	<u>6</u>				1.0	.7	(.7)	,	T • U	10,0	:	<u> </u>
	1.68	1.17		Č	1.68	1.25		<u>©</u>	Trace	73		<u></u>		Ттасе	2:	4	၁	8	10)	<u>(</u> )	,	0,01		.17	1.	(11.)	6	Ş, F	ن درو	5 6	• 74
	1.92	1.92			1.92	1.92		<u>(</u> )	0	כ		<u></u>		Trace	04.	•13	0	į	(3)	<u> </u>		<u></u>		-05	.04	(,0,)		.35	1	7	07.
	8	1,000		(	 S	1.060		(ô)	0	11 and		<u>(o)</u>		0	0	8	0	1		<u>(</u> )		<u>()</u>		<u>©</u>	R	(20)		i i	2 6	i	1
_	3.6	3.6		,	3.6	4.1	-	(0)	1.8	2.3	,	1		Trace	3.5	4.1	Trace	(6.4)	(1)	()		.5		4.1	1.4	(1.4)		19.5	7.67	5.14	- 
	1,067	717		•	1,067	767		<u></u>	23	236	3	0		Truce	118	139	Trace	(68)	101	(o)		ις.		23	K	(五)		749	1,317	2,629	1
	281.0	272.9		(	281.0	291.5		(449.5)	437.7	280	0.000	378.2		422.7	323.2	429.0	403.6	257.0		402.7		434.9		360.9	321.4	295.1		2/295-1	2/272.4		2/317.8
	124.4	143.0			124.4	122.1		(ô)	Trace	26.2	7.07	1		Trace	72.6	1.4	Trace	S S	(	o.		ľ.		0	1.4	0.		1	ì	1'	1
	31.3	21.8			31.3	22.7		<u>©</u>	Trace	0	2	8 8		0	42.7	ري د	0	(5.4)	1	42.7		2.7		1.4	2,3	ڻ		ì	•	1	l
_	2,243	2,337			2,243	2 223		1,740	1,698	700	7,9/40	1,464		1,674	2,020	1,653	1,622	27.		1,725		1,724		1,333	1,263	1,145		1,142	1,0°1	996	1,230
	0	0			0	C	)	0	0	c	>	0		0	0	0	0	0		0		0		0	0	0		0	0	0	0
	1.2	1.1			1.2	7.0	!	(1.0)	3.5	7	<u>+</u>	i		6.7	2.5	3.6	10.0	39.0		1.6		3.4	•	20°	80,	34.5		র	র	র	· 法
Chocolate, sweet, Type I, bar or disc	Class 1, containing no milk fat,	thiamine added. Class 2, containing milk fat, thiamine added.	Chocolate, sweet, enriched, Types I and	11, bars and discs (Q.M.C. Pur. Descr. 9-28-50):	Class 1, containing no milk fat,	thismine added.	thiamine added.	Coffee confection (MIL-R-2406, 8-24-50)	Cream centers, pen-costed	Mile-C-3046, 9-15-45).	(MIL-C-1424 9-30-49)	Gum, candy-coated, chewing	(MI-C-10022 (Q.M.C.), 10-26-49).	Gum drops, sanded (MIL-C-3046, 9-16-49)	Pemuts, pan-coated(MIL-C-3046,9-16-49)	Raisins, pan-coated (MIL-C-3046, 9-16-49)	Starch jelly bar (MIL-C-1424, 9-30-49).	Chocolate sirup	Citron. See Candy, commercial.	Dessert powder, prepared with gelatin (C.Q.D. No. 157B, 2-23-45, Amend. 1,	2-7-47).	Dessert powder, prepared with starch	(0.4.5.5. NO. 1908, 2-23-4.5. Amena. 1.	Honey, strained or extracted	Jams, marmalades, meserves	Jellies	Molasses, cane:	First extraction or light	Second extraction or medium	Third extraction or blackstrap	Barbados

Calcium may not be available because of presence of oxalic acid. नावान

Total sugars.

Values found for blackstrap molasses range from 0.05 to 3.63 mg. per pound.

Composition of Foods Used by the Armed Forces -- Continued

	Water	Refuse		Mat	Mutrients	in edible	le portion	of 1	pound of f	food as	purchased	ğ	
Food and description		in food as pur- chased	Food en- ergy	Protein	Fat	Total carbo- hydrate	Calcium	Iron	Vitamin A value	Thia-	Ribo- flavin	Niacin	Ascor- bic scid
SUGARS, SIRUPS, AND OTHER SWEETS	Pet.	Pct.	CeJ.	· S	اق	8	·¥I	- अ	1:0.	Mg.	· M	Mg.	Ng.
Continued Sirup, table blends (chiefly corn sirup).	25.	0	1,300	(0.)	(0.)	(336.0)	209	18,6	0	0	0.05	0. T.	0)
Granulated, ceme or beet	ကို လို ကို ကို	000	1,748 1,748 1,678	<u> </u>	<u> </u>	451.7 451.7 433.6	1/345	11.8	<u> </u>	<u> </u>	<u></u>	<u> </u>	<u></u>
Dextrose (including refined corn sugar): Anhydrous Hydrous	10.	000	1,748 1,583	êê 1	(0.0)	451.7 409. (409.)	1 1 1	1 1 1	©© <sub> </sub>	<u>66 l</u>	©©	<u> </u>	©© <sub> </sub>
CEREALS AND OTHER GRAIN PRODUCTS: Berley, pearled, light, dry	11.1	0	1,583	37.2	4.5	357.8	73	(9.1)	(0)	.55	.37	4.1	0
Unenriched flour  Enriched flour  Enriched self-rising flour  Enriched self-rising flour  Biscuits, canned, unbeked	27.0 27.0 28.0 38.6	0000	1,550	37.2 37.2 36.3	48.1 48.1 49.5 40.4	237.0 237.0 226.5 199.3	990 0835	0,00,00 0,0,00	0000	1.04	4.0.1.	20000 1004	0000
Biscuit, Type V. See Crackers, with fortified yeast.  Bran (breakfast cereal, almost wholly	2.6	0	1,097	74.5	15.4	336.9	427	46.8	(0)	1.68	1.76	87.2	0
bran).  Bran flakes (40 percent bran)  Bran, raisin	6.9	00	1,328	49.0	8 8 9 6	357.8	277	23.2	<u>©</u>	2.10	1.04	39.7	<u>©</u>
Boston brown bread made with degermed corn meal: Unenriched	44 v.v.	00	995	21.8	0.0	208.8	840	11.4	630	8,0	382	8.8	00

	00	00	00	000	000	0000	0 (	0 0	<u>©</u> ©
-	6.4	10.0	4.5	10.0	4.0.4	10.0	13.2	13.7	13.2
	.43	.7	.30	.35	66.4.9	7.7.7.82	1,21	1.36	.69 (61.)
	24.	.21	.23	.32	<u> </u>	 	1.30	1.32	2.61
	00	00	00	990	000	0000	0 (	0 0	<u></u>
	4.5	89.5	80.0	7,80 V 0,0 W	2.7.	0.0000	12.2	6.11	12.7
•	377	109	22	363 327	295 359 418	295 359 418 436	נקנ	319	150
-	233.4	236.1	243.8	262.4 262.4 237.9	237.4 235.2 237.4	237.4 235.2 237.4 222.5	249.0	329.2	326.9
	10.0	12.3	9.9	14.1	445.0	15.0	11.2	20.0	11.4
_	38.6	36.8	39.5	32.2 32.2 41.3	37.2	37.2 38.6 39.0 42.2	4.7	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	53.1
_	1,176	1,225	1,195	1,289	1,254	1,24	1,298	1,366	1,575
	00	00	00	000	000	0000	0	0 0	00
_	36.0	35.5 35.5	35.0	30.2	*************************************	**** *****	31.0	8.5	12.
	Unenriched flour	For the pression of the priched $\frac{2}{1}$	Therithed Enriched $\frac{2}{2}$	Unerriched 2/ Enriched 2/ Rye bread, American (1/3 rye, 2/3 clear flow).	White bread, unenriched: 2 percent nonfat milk solids 4 percent nonfat milk solids 3/ 6 percent nonfat milk solids	white bread, enriched: 2/ 2 percent nonfat milk solids 4 percent nonfat milk solids 3/ 6 percent nonfat milk solids Whole-wheat bread See also Biscuits, Rolls.	Breads, enriched, armed forces; Field, sheet or loaf, 2 percent nonfat milk solids.	Gerrison, loaf, 6 percent nonfat milk solids.  Bread crumbs, dry, grated  Breakfast foods. See individual grain,	Buckwheat flour, dark

1/ Calcium is based on dark brown sugar; value would be lower for light brown sugar.
2/ Iron, thiamine, riboflavin, and niacin are based on the minimum levels of enrichment specified in the standards of identity proposed by the Federal Security Agency and published in the Federal Register, August 3, 1943.

3/ When the amount of nonfat milk solids in commercial bread is unknown, use bread with 4 percent nonfat milk solids.

8	Ascor- bic acid	Mg.	000000	00000	0	00	<u>(c)</u>	0	Trace	Trace
7	Niacin value	· j	01 1 M H	000007	8. 4.	9.3	2/22.2	13.2	2,3	2.7
purchased	Ribo- flavin	Mg.	0 4 6 6 6 6 8	%4% ¥°0	. 62	1.57	2.07	2,04	•32	.45
food as	Thia-	W.	इंद्रसम्बद्ध	22.11.53	1.0	00	5.41	.95	Š	.33
pound of f	Vitamin A value	i.u.	250 250 250 250 250 250 250 250 250 250	1, 420 2,570 1, 950 1, 790 2,380	1,130	Trace	0)	Trace	1,320	1,590
of 1	Iron	ž.	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00000	13.2	15.0	153.9	11.4	12.7	7.7
le portion	Celcium	अन्न	27 572 459 445 704	531 136 477 400 127	495	831 867	2,956	1,308	141	173
in edible	Total carbo- hydrate		266.5 253.8 274.2 265.6 253.8 258.8	281.9 216.1 246.1 264.2 247.0	296.9	320.1	333.2	310.1	314.2	279.2
Mutrients	Fat		53.1 42.2 52.2 62.7 37.2	28.1 138.0 80.4 66.7 22.7	57.2	60.8	10.9	38.6	56.3	89.4
Ma	Protein	ag ag	28.00 20.00 23.00 29.00	23.5 27.2 22.7 20.0 35.9	45.4	50.4	64.5	61.3	40.0	44.9
	Food en- ergy	Cal.	1,591	1,463 2,200 1,782 1,716 1,322	1,840	2,037	1,651	1,845	1,900	2,089
Refuse	in food as pur- chased	Pct.	00000	00000	0	00	0	0	0	0
Water	of edible portion	Pet.	25.15 25.15 26.25 27.15 26.05	25.2 21.6 21.6 31.8	10.0	3.6	5.7	3.5	7.0	6.1
	Food and description	CEREALS AND OTHER CRAIN FRODUCTS Continued	Angel food  Foundation, plain icing  Foundation, fudge icing  Fruit, dark  Plain cake and cupcakes	Plain cake and cupcakes, iced  Pound, canned (MIL-P-3234, 6-25-50)  Rich	Cereal biscuit (Q.M.C. Fur. Descr.,  10-4-50, Change #1, 10-11-50).  Cereal, breakfast, prepared (ready-to-eat). See Breakfast foods, mixed  cereals, and individual grains as  Corn, Oatmeal, etc.  Cereal, compressed, pre-mixed (thiamine	Block B	Dry, precooked	Cereal, pre-mixed (with sugar and dried milk) (JAN-C-1045, 3-24-49).	Apple coolcy bar (with special protein)	Coconut cooky bar (with special protein) (MIL-F-2413, 9-5-50).

Trace	(0) Trace Trace	0	<u></u>	(0)	<u>66</u>	(o)	<u>©</u>	<u>©</u>	<u>©</u>	<u></u>
3.2 压	1.8 3.8 4 H	2,3	2.00	9.5	7.1	(6.4)	rv oʻ	9.1	4.7	8.6
-53	.27	.37	.16	文	24. 27.	<u>بن</u>	.18	35.	.21	.47
-36	12.33	•51	31.	3.04	1.88	.93	2.0.5	1.74	2.0	1.63
1,320	0 12,670 4,290	330	<u></u>	<u>©</u>	<u>©</u>	3/1,540	4/1,360	6/2,320 6/2,020	6/1,360 6/1,360	6/2,200
9.5	2000 0000	8.2	2.7	28.6	10.01	80	13.	10.9	13.00 0.00	10.4
25,9	313 381 436	236	25, 25	300	22	27	18	45	27	1,189
316.9	344.1 376.4 346.4	294.6	340.5	341.0	385.9 385.9	348.7	354.6 354.6	334.6	355.9 355.9	321.4
57.2	24.1	101.2	57.7	1.4	000	11.8	, o, o	17.7	5.4	16.8
41.8	24.5	(25.9)	27.2	81.7	36.8	35.4	98 10 10 10 10 10 10 10 10 10 10 10 10 10	41.8	35.9	33.5
1,926	1,587	2,092	1,978	1,501	1,748	1,672	1,642	1,611	1,650	1,34
0	000	0	00	0	00	0	00	00	00	00
5.9	13.8 8.5 0.0	4.4	4 w & &	2.7	9.0	12.	12.	12.	12.	12.
Date cooky bar (with special protein)	Fig-filled bar Fig-750).  Fig-filled bar MIL-R-2406, 8-24-50).  High-carbohydrate cereal bar (MIL-B-2406, 8-24-50).	Ostmeal, chocolate chip	Plain and assorted	Corn and soy grits, ready-to-est (added thismine and niscin)	Corn flakes Corn flakes (added thiamine, niacin,	Corn flow Corn grits, white or yellow, degermed,	Unenriched  Enriched 5/ Corn meal, white or yellow, dry:	Unbolted Bolted	Unenriched	Unenriched Enriched 5/

1/ If the fat used in the recipe is butter or fortified margarine, the vitamin A value per pound would be 2,450 I.U. in foundation cake; 1,950 I.U. in foundation cake, iced; 1,940 I.U. in foundation cake, fudge icing; 1,860 I.U. in dark fruit cake; 1,680 I.U. in plain cake; 1,270 I.U. in plain cake, iced; 4,490 I.U. in pound cake; 3,770 I.U. in rich cake; and 3,130 I.U. in rich cake, iced.

2/ Based on products ranging from 11.4 to 30.0 mg. per pound of cereal. The niacin value of some products is as high as 104 mg. I Vitamin A based on yellow corn flour contains only a trace.

5/ Iron, thiamine, riboflavin, and niacin are based on the minimum levels of enrichment specified in the standards of identity 4/ Vitamin A based on yellow corn grits; white corn grits contain only a trace.

6/ Witamin A based on yellow corn meal; white corn meal contains only a trace. promilgated under the Food, Drug, and Cosmetic Act.

ood and description  OTHER CRAIN PRODUCTS Pet.  Lh fortified yeast th fortified yeast th fortified wast thour 1/.  See Crackers, soda.  See Crackers, soda.  ske type, made with flour 1/.  Ino.5  Corn, Hye, Wheat flours, etc.  7-27-49).  See also Corn grits.  See also Corn grits.  y:  See also Corn grits.  y:  tready-to-ext (added vitamins food), dry 5/.  clinfant food, dry 5/.		Water	Refuse		Mut	Nutrients	in edible	le portion	of 1	pound of	food as	purchased	pg	
Pert         Pert         Col.         Gam.         Gam. <th< th=""><th></th><th></th><th>in food as pur- chased</th><th>Food en- ergy</th><th>Protein</th><th>Fat</th><th>Total carbo- hydrate</th><th>Celcium</th><th>Iron</th><th>Vitamin A value</th><th>Thia-</th><th>Ribo- flavin</th><th></th><th>Ascor- bic acid</th></th<>			in food as pur- chased	Food en- ergy	Protein	Fat	Total carbo- hydrate	Celcium	Iron	Vitamin A value	Thia-	Ribo- flavin		Ascor- bic acid
5.5       0       1,75       45.4       337.3       91       8.6       (0)       1.36       0.54       6.8         4.6       0       1,995       44.6       332.8       86       4.5       (0)       .29       20.2       4.7       4.7       1.36       322.8       86       4.5       (0)       .29       2.2       4.7       4.7       1.39       4.7	D OTHER GRAIN PRODUCTS	Pct.	Pct.	Cal.	G.	E E	S S	·¥	·MS	I.U.	Mg.	· Mg	Ng.	·N N
18.7         0         1,955         41.8         55.6         322.8         86         4.5         (0)         .28         .20         4.7           4.45         0         1,999         44.5         330.1         17         5.9         0         3.59         4.9           18.7         0         1,927         30.0         95.3         239.3         331         2.7         630         .17         .37         1.3           11.5         0         1,678         49.5         3.6         351.4         127         4.5         690         .17         .37         1.3           10.5         0         1,678         49.5         3.6         351.4         127         4.5         60         .17         .37         1.3           10.5         0         1,678         49.5         3.6         351.4         127         6.5         60         .17         3.7         1.3           10.5         0         1,678         49.5         3.6         351.4         127         6.5         60         .17         2.3         1.3           6.6         0         1,772         58.1         6.4         347.3         100		5,5		1,785	36.3	45.4	337.3	<u>8</u>	8.6	<u>©</u>	1.36	0.54	6.8	0
4.3         0         2,032         41.3         68.1         312.4         173         5.9         0         3.59         4.09         11.8           18.7         0         1,927         30.0         95.3         239.3         331         2.7         630         .17         .37         1.3           11.5         0         1,678         49.5         3.6         351.4         127         4.5         (0)         .25         .28         3.8           10.5         0         1,678         49.5         3.6         351.4         127         6.0         0         .25         .28         3.8           5.0         1,678         49.5         3.6         351.4         127         6.7         (0)         1.66         1.2         6.8           6.         0         1,775         42.2         4.1         378.6         18         5.0         4/1,450         .19         .37         4.5           8.6         0         1,772         58.1         6.4         347.3         100         6.8         (0)         4.2         .27         9.2           9.6         0         1,728         57.2         15.4         332.3		4°6		1,955	43.6	53.6	322.8	886	4 r	<u>6</u> 6	8 R	ឧដ	4.7	<u></u>
18.7 0 1,927 30.0 95.3 239.3 331 2.7 630 .17 .37 1.3 11.5 0 1,688 35.9 21.8 335.1 363 3.6 880 .31 .51 .2.3 11.5 0 1,678 49.5 3.6 351.4 127 4.5 6. (0) 1.67 6. 12 6. 33.6 351.4 127 6. (0) 1.66 1.2 6. 33.6 5.0 1,775 42.2 4.1 378.6 13.8 5.0 4/1.450 .63 .20 5.8 8.6 0 1,72 58.1 6.4 347.3 100 6.8 (0) .42 .27 9.2 8.6 0 1,72 58.1 6.4 347.3 100 6.8 (0) .42 .27 9.2 9.6 0 1,728 57.2 15.4 332.3 100 13. 890 4. 1.7 27 9.6 0 1,728 57.2 15.4 332.3 100 13. 890 4. 1.7 27 9.6 0 1,770 64.5 33.6 309.6 13. 890 4. 1.77 27 10.5 6.6 1.770 64.5 33.6 309.6 143.0 (0) 5.71 .62 4.7 10.5 10.4 0 1,584 43.1 6.4 331.9 2,111 15.0 0 .66 .33 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 0 1,768 1.30 6.4 13.0 10.4 13.0 10.5 10.4 13.0 10.4 13.0 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10	with fortified yeast	4.3		2,032	41.3	689	312.4	173	ري و.	0	3.59	4.09	8.11	0
11.5 0 1,927 30.0 95.3 239.3 331 2.7 630 .17 .37 1.3 11.5 0 1,688 35.9 21.8 335.1 363 3.6 880 .31 .51 .2.3 10.5 0 1,678 49.5 3.6 351.4 127 6. (0) 1.25 1.28 3.8 10.5 0 1,678 49.5 3.6 351.4 127 6. (0) 1.66 1.2 6. (0) 1.67 6. 1.2 6. (0) 1.67 6. 1.2 6. (0) 1.67 6. 1.2 6. (0) 1.67 6. 1.2 6. (0) 1.67 6. 1.2 6. (0) 1.67 6. 1.2 6. (0) 1.67 6. 1.2 6. (0) 1.67 6. 1.2 6. (0) 1.72 58.1 6.4 347.3 100 6.8 (0) 4.2 1.7 27 9.2 9.6 0 1,72 58.1 6.4 347.3 100 13. (0) 4.2 1.7 27 9.2 9.6 0 1,72 58.1 6.4 347.3 100 13. (0) 4.2 1.7 27 9.6 0 1,72 58.1 6.4 347.3 100 13. (0) 3.70 1.70 64.5 33.6 39.6 13.8 10.0 13. (0) 3.70 1.70 64.5 33.6 309.6 13.0 13.0 0 13.0 0 1.77 10.5 10.4 0 1.70 1.70 64.5 33.6 309.6 143.0 0 1.77 10.5 10.4 0 1.70 1.70 1.70 1.70 1.70 1.70 1.70 1.														
11.5 0 1,688 35.9 21.8 335.1 363 3.6 880 .31 .51 2.3 10.5 0 1,678 49.5 3.6 351.4 127 4.5 (0) 1.25 1.28 3.8 3.8 10.5 0 1,678 49.5 3.6 351.4 127 6. (0) 1.66 1.2 6. 6. 1.2 6. 1.77 54.5 234.3 120 6.8 (0) 1.450 1.9 1.77 4.5 6.0 1,772 58.1 6.4 347.3 100 6.8 (0) 4.1 1.7 27 9.2 9.6 0 1,772 58.1 6.4 347.3 100 13. (0) 4.1 1.7 27 9.2 9.6 0 1,772 58.1 6.4 347.3 100 13. 890 4.1 1.7 27 9.6 0 1,775 64.5 33.6 393.6 241 20.4 (0) 3.79 1.77 54.5 33.6 393.6 241 20.4 (0) 5.71 1.57 10.5 10.4 0 1.58 43.1 6.4 331.9 2.111 15.0 0 1.66 1.3 6.4 11.0 1.56 1.40 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.		18.7		1,927	30.0	95-3	239•3	331	2.7	630	•17	•37	1.3	<u>©</u>
10.5   0   1,678   49.5   3.6   351.4   127   4.5   (0)   1,66   1.2   6.     10.5   0   1,678   49.5   3.6   351.4   127   6.5   (0)   1,66   1.2   6.     30.4   0   1,486   17.7   54.5   234.3   518   11.4   450   .19   .37   4.5     6.	nix, made with unenriched	11.5	0	1,688	35.9	21.8	335.1	363	3.6	880	•31	[]	2,3	0
10.5 0 1,678 49.5 3.6 351.4 127 6.0 0.25 .28 3.8 5.6 10.5 0 1,678 49.5 3.6 351.4 127 6.0 0.1 .25 .28 3.8 5.6 1.2 5.0 1,678 49.5 3.6 351.4 127 6.0 0.1 .25 .28 3.8 5.0 1,772 54.5 234.3 518 11.4 450 .19 .37 4.5 5.8 6.0 1,712 58.1 6.4 347.3 100 6.8 (0) .42 .27 9.2 9.6 0 1,728 57.2 15.4 332.3 100 13.														
30.4       0       1,678       49.5       3.6       351.4       127       6.       (0)       1,66       1,2       6.         30.4       0       1,486       17.7       54.5       234.3       518       11.4       450       .19       .37       4.5         6.       0       1,772       58.1       6.4       347.3       100       6.8       (0)       .42       .27       9.2         8.6       0       1,772       58.1       6.4       347.3       100       13.       (0)       4.       1.7       27.         9.6       0       1,728       57.2       15.4       332.3       100       13.       890       .91       .50       10.4         9.6       0       1,772       68.8       31.8       726       18.6       (0)       3.70       .97       27.         4.0       0       1,770       64.5       31.9       31.9       2.111       9.1       (0)       2.71       .62       4.7         10.4       0       1,584       43.1       6.4       33.2       2.111       9.1       0       1.56       33       6.4       10.5       10.5 <t< td=""><td>rina, raw: Unenriched</td><td>10.5</td><td></td><td>1,678</td><td>49.5</td><td>3.6</td><td>351.4</td><td>127</td><td>4.5</td><td>(ô)</td><td>.25</td><td>.28</td><td>3.8</td><td>9</td></t<>	rina, raw: Unenriched	10.5		1,678	49.5	3.6	351.4	127	4.5	(ô)	.25	.28	3.8	9
8.6 0 1,72 58.1 6.4 347.3 100 6.8 (0) .42 .27 9.2 8.6 0 1,72 58.1 6.4 347.3 100 13. (9) 4. 1.7 27 9.2 9.6 0 1,72 58.1 6.4 347.3 100 13. (9) 4. 1.7 27 9.5 9.6 0 1,72 57.2 15.4 332.3 100 13. (9) 3.70 .87 3.5 4.0 1,770 64.5 33.6 309.6 18.6 (0) 3.70 .87 3.5 10.4 0 1,584 43.1 6.4 331.9 2,111 9.1 0 .66 33 6.4 1.0 1.0 1.56 43.1 6.4 331.9 2,111 15.0 0 1.66 1.78 1.00 13.0 1.00 1.00 1.00 1.00 1.00 1.00	13/	10.5		1,678	49.5	3.6	351.4	127	ंं	<u></u>	1.66	1,2	ٷ	0
8.6 0 1,712 58.1 6.4 347.3 100 6.8 (0) .42 .27 9.2 8.6 9.6 0 1,72 58.1 6.4 347.3 100 6.8 (0) 4. 1.7 27 9.2 9.6 0 1,728 57.2 15.4 332.3 100 13. 890 .91 .50 10.4 9.6 0 1,770 64.5 33.6 309.6 241 20.4 (0) 3.70 .87 3.5 10.4 9.6 0 1,770 64.5 33.6 309.6 241 20.4 (0) 5.71 .62 4.7 10.5 10.4 0 1,584 43.1 6.4 331.9 2.111 9.1 0 .66 .33 6.4 13.0 10.4 0 1,584 43.1 6.4 331.9 2.111 15.0 0 1.78 1.40 13.0 13.0 14.0 15.0 14.0 13.0 14.0 14.0 13.0 14.0 14.0 14.0 14.0 14.0 14.0 14.0 14	e Corn, Rye, Wheat flours, etc.			,	I I	i.	0	0	,	2.7	5	1		3
8.6 0 1,712 58.1 6.4 347.3 100 6.8 (0) .42 .27 9.2 8.6 0 1,712 58.1 6.4 347.3 100 13. (0) 4. 1.7 27. 27. 37. 37. 32.3 100 9.5 890 .91 .50 10.4 4.0 0 1,707 64.5 33.6 399.6 241 20.4 (0) 2.71 .62 4.7 10.4 0 1,584 43.1 6.4 331.9 2.111 9.1 0 .66 .33 6.4 1.40 13.0 1.76 13.0 10.4 0 1,584 43.1 6.4 331.9 2.111 9.1 0 .66 .33 6.4 1.40 13.0 1.76 1.40 13.0 13.0 1.76 1.40 13.0 1.76 1.40 13.0 1.76 1.40 13.0 13.0 1.76 1.40 13.0 13.0 1.76 1.40 13.0 13.0 1.76 1.40 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.	hardrated white or vellow	5 4 4		1,486	1/./	¥ 4	378.6	18	7.0	4	1.6	<u>ئ</u> لا	4 π υ α	99
8.6 0 1,712 58.1 6.4 347.3 100 6.8 (0) .42 .27 9.2 8.6 0 1,72 58.1 6.4 347.3 100 6.8 (0) 4. 1.7 27 9.2 9.2 9.6 0 1,728 57.2 15.4 332.3 100 13. 890 4. 1.7 27 27. 4.0 0 1,770 64.5 33.6 309.6 143.0 (0) 5.71 .62 4.7 10.4 0 1,584 43.1 6.4 331.9 2,111 9.1 0 .66 .33 6.4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	32, 7-27-49).	;			!	-	}			A A				
8.6 0 1,712 58.1 6.4 347.3 100 6.8 (0) .42 .77 27. 9.6 0 1,728 57.2 15.4 332.3 100 9.5 890 .91 .50 10.4 4.0 1,770 64.5 33.6 309.6 18.6 (0) 3.70 .87 3.5 10.5 6.6 0 1,770 64.5 33.6 309.6 143.0 (0) 5.71 1.57 10.5 10.4 0 1,584 43.1 6.4 331.9 2,111 15.0 0 1,78 1.40 13.0 13.0	y. See also Corn grits.													
8.6 0 1,728 57.2 15.4 332.3 100 9.5 890 .91 .50 10.4 9.6 0 1,728 57.2 15.4 332.3 100 13. 890 4. 1.7 27. 4.0 0 1,770 64.5 33.6 309.6 241 20.4 (0) 5.71 1.57 10.5 10.5 10.4 0 1,584 43.1 6.4 331.9 2,111 9.1 0 .66 .33 6.4 10.5 10.5 10.4 0 1,584 43.1 6.4 331.9 2,111 15.0 0 1.78 1.40 13.0	dry:	8		1.772		6.4	347.3	100	8.9	9	.42	72.	9.2	9
9.6 0 1,728 57.2 15.4 332.3 100 9.5 890 .91 .50 10.4 4.0 0 1,728 57.2 15.4 332.3 100 13. 890 4. 1.7 27. 27. 4.0 0 1,770 64.5 33.6 309.6 241 20.4 (0) 5.71 1.57 10.5 10.4 0 1,584 43.1 6.4 331.9 2.111 9.1 0 .66 .33 6.4 13.0 10.4 0 1,584 43.1 6.4 331.9 2.111 15.0 0 1.78 1.40 13.0 10.0 1.78 1.40 13.0 10.0 1.78 1.40 13.0 13.0 10.0 1.78 1.40 13.0 10.0 1.78 1.40 13.0 10.0 1.78 1.40 13.0 13.0 10.0 1.78 1.40 13.0 13.0 10.0 1.78 1.40 13.0 10.0 10.0 10.0 1.0 1.0 1.0 1.0 1.0 1.	13/	8.6		1,72	58.1	6.4	¥7.3	100	13.	<u>(</u> )	4.	1.7	27.	<u></u>
9.6 0 1,728 57.2 15.4 332.3 100 13. 890 4. 1.7 27. 4.0 65.8 31.8 318.7 726 18.6 (0) 3.70 .87 8.5 87 8.5 8.3 0 1,770 64.5 33.6 309.6 241 20.4 (0) 2.71 .62 4.7 6.6 0 1,701 68.1 22.7 311.9 3,596 143.0 (0) 5.71 1.57 10.5 10.4 0 1,584 43.1 6.4 331.9 2,111 9.1 0 66 33 6.4 13.0 10.4 0 1,584 43.1 6.4 331.9 2,111 15.0 0 1.78 1.40 13.0	containing agg), dry:	d		t 000	1	ָרַ בּי	000	ξ	C	C C	5	Ċ	-	(
4.0       0       1,770       65.8       31.8       318.7       726       18.6       (0)       3.70       .87       8.5         8.3       0       1,770       64.5       33.6       309.6       241       20.4       (0)       2.71       .62       4.7         6.6       0       1,701       68.1       22.7       31.9       3,596       143.0       (0)       5.71       1.57       10.5         10.4       0       1,584       43.1       6.4       331.9       2,111       9.1       0       .66       .33       6.4         10.4       0       1,584       43.1       6.4       331.9       2,111       15.0       0       1.78       1.40       13.0		200		7,7	5.70	7,7,7	332,3	3 5	13.0	2 6	- K	5.	27.	9
8.3 0 1,770 64.5 33.6 309.6 241 20.4 (0) 2.71 .62 4.7 6.6 0 1,701 68.1 22.7 311.9 3,596 143.0 (0) 5.71 1.57 10.5 10.4 0 1,584 43.1 6.4 331.9 2,111 9.1 0 .66 .33 6.4 10.4 0 1,584 43.1 6.4 331.9 2,111 15.0 0 1.78 1.40 13.0	ready-to-est (added vitamins	4		1,797			318.7	726	18.6	(0)	2.5	.87	8.5	<u></u> (3)
8.3 0 1,770 64.5 33.6 309.6 241 20.4 (0) 2.71 .62 4.7 5/2 10.5 10.5 10.4 0 1,584 43.1 6.4 331.9 2.111 9.1 0 .66 .33 6.4 13.0 10.4 0 1,584 43.1 6.4 331.9 2.111 15.0 0 1.78 1.40 13.0 10.0 1.66 14.3 10.0 1.66 14.3 10.0 1.66 14.3 10.0 1.66 14.0 13.0 10.0 1.66 14.0 13.0 10.0 1.66 16.0 10.0 10.0 1.66 16.0 10.0 10	mels).													
rs):  10.4 0 1,584 43.1 6.4 331.9 2,111 9.1 0 .66 .33 6.4 10.4 0 1,584 43.1 6.4 331.9 2,111 15.0 0 1.78 1.40 13.0 1.66 .71 1.67 10.5		8,3		07.7.1	64.5	33.6	309.6	241	20.4	(0)	2.71	.62	4.7	0
rs): 10.4 0 1.584 43.1 6.4 331.9 2.111 9.1 0 .66 .33 6.4 13.0 1.584 43.1 6.4 331.9 2.111 15.0 0 1.78 1.40 13.0	N	9		1,701	68,1	22.7	311.9	3,596	143.0	<u></u>	5.71	1.57	10.5	<u> </u>
10.4 0 1.584 43.1 6.4 331.9 2.111 9.1 0 .66 .33 6.4 13.0 0 1.584 43.1 6.4 331.9 2.111 15.0 0 1.78 1.40 13.0	x, dry, self-rising:													
10.4 0 1.584 43.1 6.4 331.9 2.111 15.0 0 1.78 1.40 13.0	ched	10.4		1,584	43.1	6.4	331.9	2,111	9.1	0	99.	.33	6.4	<u>©</u> :
	peq.	10.4		1,5%	43.1	40	331.9	2,111	0.5	0 0	1.78	1.40	13.0	<u></u>

16	9 (0)	<u>©</u> ¥	ר מ	r (ô	9	99		<u></u>	<u>e</u>	<u></u>	9	<b>©</b> (	<u>0</u> 0			<u>©</u>		<u>©</u>	
 יינו	1.1	1.4	1.6	1.5	(9.5)	(10.0)		21.0	7.4	ů	4.1	25.0	25.0	`		10.01		10.0	
8.4	.08	4%	91.	డ్డి	(-50)	(Z)		សំដ	121.	40°	•39	8	<u>ئ</u> ئ			49		8.	
4.0	.23	23.	, Ę.	ដូ8	(1,7)	(1.77)	1,000	1.43	, e	8	.36	200	2° 5°			.25		.25	
23.0	1,730	1,030	2,8	0 0 0 0	9	<u></u>		<u></u>	<u> </u>	<u></u>	6	<u></u>	99			0 0		00	
1.8	1.8	4.0	10.0	, Ф Ф	(11,4)	(12.3)		9,6	90	3.9	8,2	8 0	8 0			w % 0	•	8.0	
32 45	568	568	12	45	(42)	300	}	177	166	138	R	8	3. K			250			
179.3	183.4	119.4	207.0	117.1	327.3	348.2		352,35	360.57	378.2	398.2	398.2	308.2			250.2		24 44 6. 44 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6	
43.1	2.5°	39.5	31.	43.6	21.3	22.7	}	7.7	\   	ೲ	2.7	2.7	2,7	•		25.0		35.4	
0 0 0 0	10.9 23.6	23.6	11.4	19.0	. Z	57.7		2 2 3 6 1	× ×	40.0	26.8	% % %	8 % %			40.9		9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.00	
1,115	1,147	927	1,146	919		1.7.1	-	1,03		1,734		1,782	1,782			1,406		1,466	
00	00	00	0	00	0	00		ဂ င	0	0	0	0 0	0 0			00		00	
52.7	46.2 58.5	58.5	43.0	8 2 2 5 5	80	0.0	,	12.0	12.3	7.6	3.5	w. w.	ກຸຕ			28 28 57		28.4 28.4	
Pastry, shell, plain. See Fie crust. Fies: Apple Blueberry	Cherry	Custard	Lince	Pie crust, unbaked (fresh or frozen)	Popcorn: Unpopped		Rice, raw:	Brown	White or milled	Precooked, dry	Mice products: Flakes	Flakes (added thismine and niacin)	Fulfed (added thiamine and niacin)	Rice, wild. See Wild rice.	rolls: Plain:	Unenriched (pan rolls)		Uneariched Enriched 3/	

1/ Whan made with enriched flour, doughnuts contain 6.4 mg. of iron, 0.72 mg. of thismine, 0.59 mg. of riboflavin, and 5.7 mg. of niacin

2/ When made with enriched flour, doughnut mix contains 9.1 mg. of iron, 1.27 mg. of thismine, 1.11 mg. of riboflavin, and 9.1 mg. of niacin per pound.

3/ Iron, thiamine, riboflavin, and niacin are based on the minimum levels of enrichment specified in the standards of identity promulgated under the Food, Drug, and Cosmetic Act.

5/ The niscin value is based on products ranging from 6.4 to 19.5 mg. per pound of cereal. The niscin value of some products is as 4/ Vitamin A based on yellow corn hominy; white corn hominy contains only a trace.

high as 103.5 mg. per pound.

Composition of Foods Used by the Armed Forces-Continued

	Niacin bic	- Mg -	2.9 11.2 7.1 7.1 (0) 5.7 (0)	9.2 (0) (0) (0) (0) (0) (0) (0)	19.5 19.5 (16.3) (28.1) (0) (0) (0)	19.7 (0)	6.5 (0)	5.2 16.0 (0) (0) (0)	
purchased	Ribo- Ni flavin ve	· 577		.27 (0) (0) .27	x \(\hat{c}\) \(\hat{c}\) \(\hat{c}\)	\$5. \$3.	క బ్	13.2	
food as ]	Thia- mine	-BM	0.0 1.2 2.1 2.1 2.1 2.1 3.1 3.1	4. (0) (0) .88	2.59	2.49	500	2.028	2.0
pound of	Vitamin A value	I.U.	<u> </u>	(0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	<u> </u>	<u>©</u>	<u></u>	<u> </u>	<u>(</u> )
of 1	Iron	¥	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	6.8 (0) (4.5)	1,571	15.0	5.0	13.0	13.0
in edible portion	Calcium	Ħ	100 (123) 245 (173) 227 45	001	163 209 191 163 168	186	16	1,235	73
1	Total carbo- hydrate	B	353.7 339.6 309.2 333.2 341.9 291.9	347.3 395.0 392.3 220.6	313.7 325.5 327.3 342.3 318.3	322.3 336.4	338.2 349.1	335.1 335.1 345.5	345-5
Nutrients	Fat	<u>.</u>	4.5 11.8 7.7 5.4 110.8	6.9 6.0 6.0 (1.27)	0.00	5.9	4.0.	44 4 70 70 70	4.5
Ma	Protein	GB	47.44.68 7.80 0 0 0 0 0 0	58.1 58.1 26.3 5.3 6.3	63.6 55.8 46.3 57.7	66.47 74.57	53.6	41.8	47.7
	Food en- ergy	Cal	1,625 1,587 1,502 1,518 1,537 2,289	1,712 1,644 1,634 1,634	1,498 1,499 1,523 1,523	1,511	1,656	1,588	1,674
Refuse	in food as pur- chased	Pct.	00000	00000	00000	00	00	00 0	0
Water	of edible portion	Pet	111111111111111111111111111111111111111	8.6 8.6 112. 12.6 41.9	13.0 14.0 13.0 13.0	12.	12.	12.	12.
	Food and description	CEREALS AND OTHER GRAIN PRODUCIS—Continued Rye bread. See Breads.		Unemriched I Starch (including arrowroot, corn, etc.).  Tapioca, dry  Tortillas  Vermicelli, See Macaroni.	Wheer, whole grain; 2/ Hard red spring Soft red winter White	Whole (from hard wheats)	Straight, hard wheat	Unenriched Enriched 4/ Patent: All-purpose or family flour: Unenriched	•

<u> </u>	<u>©</u>	<u> </u>	<u>©</u>	<u> </u>	<u>©</u>	Trace Trace (0)
3.0	21.8	82.00	18,6	8888	21.3	20. 10.6 10.6
22.4	22	3.63	·55.	48.65	2.87	5.03 5.75 5.75
2.0	2. 38. 47.	9 5 7 7 7 8 8 8 8 9 7	1.65	1.02 2.82 2.50 6.81	2.41	1.12
<u>666</u>	<u>©</u> ©	<u> </u>	(0)	<u> </u>	<u></u>	Trace
13.0	13.6	36.8	14.5	15.0	15.9	20.0
73.33	209	381	163	223 723 723 723	213	1,153 1,135
339.1	E E	224.7 364.1 364.1	345.9	363.7 375.9 341.9 328.7	375.9 341.9	89.00 45.55 4.45.50
0.00	7.5	45.4	9.1	11.0 7.7 10.0	3.2	245.6 125.5 248.8
25.0 25.0 25.0 25.0	49.0 49.0	49.0	6.44	45.9 40.0 57.7 58.1	649	84 48 4 4 6 8 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
1,656	1,613	1,640	1,545	1,635 1,610 1,564	1,764	2,711 1,386 2,764
000	00	000	0	0000	00	0 00
12.	w w	0.00	10.1	11 00 00 00 00 00 00 00 00 00 00 00 00 0	0,00 00 FU	44°, 7.7°,
Eread flour: Unenriched  Ebriched 1/ Cake or pastry flour Wheat unchucks:	France productions of the English Brane Frances (added iron, this mine, and	niscin). Gern Fuffed Puffed (added iron, thismine, and	niacin). Rolled, dry	Shredded: Plain With added malt and sugar Whole meal, dry (added wheat germ,	iron, and thiswine). Wheat and malted barley cereal, ready-to-eat (added thiswine and niacin). Wild rice, parched, raw	MATTRE BEANS AND OFFER LEGIMES (FULSES);  NUTS: Almonds, dried, unblanched: Shelled

1/ Iron, thiamine, riboflavin, and niacin are based on the minimum levels of enrichment specified in the standards of identity promulgated under the Food, Drug, and Cosmetic Act.

2/ Vitamin A value of tortillas made from yellow corn; tortillas made from white corn have no vitamin A value.

4/ Iron, thismine, riboflavin, and niacin are based on the minimum levels of enrichment specified in the standards of identity promulgated under the Food, Drug, and Cosmetic Act. Calcium is based on the level usually found in self-rising flour which is in 3/ Proximate constituents adjusted to moisture content of wheat as it reaches the mill prior to tempering.

excess of the minimum (500 mg. per pound) required. See page 41.

5/ For brands that are oven-toasted thiamine will be 0.20 mg.

Composition of Foods Used by the Armed Forces--Continued

	Ascor- bic acid	Mg.	ω	ω 0	œ	11	118	(8)	₹. ©®	22.24
	Niacin b	· M	9.2	3.6	و. ور	2,1	0,0 1,0	1 00	,6 Trace	10.2
parchased	Ribo-	· <b>M</b>	1.07	8° 2°	1.04	•16	91.08.		.02 Trace	11.11
food as p	Thia- mine	- Mg	2,95	2 82 83	3.06	ä	2.18	3.91 1.96 2.86 2.50	.23 Trace 4.18	2.53
pound of f	Vitamin A value	1.0.	0	<u>99</u>	0	150	96 o	Trace Trace Trace	0 0 04	2,580
of 1	Iron	श्री	31.3	31.3	31.3	9.5	34.0	15.4	16.3 29.5	33.6
le portion	Calcium	潮	740	740	740	254	309	844 222 418	51 195 350	268 154 284
in edible	Total carbo- hydrate		289.2	269.7	7.612	87.2	83.5	49.9 25.0 122.6 276.5	33.7	270.1 274.2 33.
Nutrients	Fat	ĝ	5.4	7.7	7.3	13.6	0 rv rv o	299.2 149.6 218.8	83.6 177.5 6.4	4.5
Ma	Protein	Sin	104.4	104.9	97.2	26.3	26.3	65.4 32.7 94.0	8.2 16.3 104.0	113.5
	Food en- ergy	Cal.	1,584	1,526	1,537	266	513	2,934 1,468 2,622 1,631	865 2,525 1,553	1,531
Refuse	in food as pur- chased	Pct.	0	00	0	0	00	0000	000	2500
Water	of edible portion	Pet.	8.1	12.2	11.5	70.0	71.7	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	46.9	11.2
	Food and description	MATTRE BEANS AND OTHER LEGUMES (HULSES); NUTSContinued Beans, common or kidney, mature dry	seeds: Pinto and red Mexican, raw	Red kidney: Raw Canned (or cooked), total contents	Other (including navy, pea bean, white marrow, other):  Raw	Cenned beans with pork (JAN-B-665, 8-20-48); Type I, oven-baked, with pork and	Type II, pork and tomato sauce  Beans, lima, mature dry seeds	10 0	Coconut:  Fresh; refuse, shell and milk  Dried, shredded (sweetened)  Cowpeas, mature seeds, dry  Garbanzos. See Chickpeas.	Lentils, dry: "hole (entire seeds)

	<u> </u>	90	r <sub>4</sub>	<u> </u>		Trace	13	113	64 49 86	95	2	18
	73.5	44	2.1	13.0		10.5	2.4	4.7	6.4.0 0.4.0	5.4	2,1	. i i
	8.43.	1.28	27.5	1.53		1.40	.27	3	37.	89.	.45	.19
	1. %%%	3.48	3.25	3.70		4.86	.98	攻	.30	24.	ಟ	.15
	000	1,680	230	300		490	160	3,430	2,750	3,860	2,560	1,880
	0 0 0 0 0 0 0	21.3	10.9	0.0.47 0.0.0.		36.3	4 v	3.1	7.86.7	4.1	4	7.7
	336	259	336	1,203 1,108 885		1,031	169	71	23 88 23	95	566	123
	107.1	273.3	39.0	1/171.2 1/168.9 1/135.7		1/158.0	31.8	13.3	13.2	17.7	31.5	19.1
	200.7	4.5	331.4	93.50		82.2	131.4	1.	4.0.1	٥	Φ.	ri oʻ
	122.1 88.c 118.5	108.1	42.7	202.9 193.0 163.0		158.4	30.6	7.5	8.01 0.04	10.0	8.0	4.9
-	2,540 1,829 2,615	1,541	3,162	1,034		1,503	1,335	. 72	97	95	143	83
	0 %0	00	0 84	000		0	55.0	25	3900	0	CI	00
-	2.6	11.6	0.0	11.		7.5	w.w.	93.0	93.6 92.5	93.0	88.9	93.5
	Peanuts, Virginia type, roasted: Shelled In shell; refuse, shells Peanut but ter	Feas, mature dry seeds: Entire seeds	• 44	Soybean cura, See Coner Vegetables. Soybean flour, flakes, grits: Low fat	Soybean milk. See Beverages. Soybean sauce. See Miscellaneous. Soybean sprouts, raw. See Other	Soybeans, whole, mature, dried	Walnuts, Persian or English: With shells; refuse, shells	LEAFY, GREEN, AND YELLOW VEGETABLES: Asparagus, green: Raw: refuse, butt ends		refuse, 39 percent liquid. Frozen	Beans, snap: Green: Raw; refuse, ends	Canned: Total contents of can  Drained solids, 1 pound, E.P. 2/

<sup>1/</sup> Approximately 40 percent of this total anount of carbohydrate calculated by difference is sugar, starch, and dextrin. The remaining portion is made up of materials thought to be utilized only poorly, if at all, by the body.

25

<sup>2/</sup> Not on as purchased basis.

Composition of Foods Used by the Armed Forces -- Continued

1	Ascor- bic scid	· Me	16	83	62	18 16	50	327	328 286	165 989 101	24
70	Niacin	· j	1.2	2.7	2.1	٠ ٣ ٣ ١	1.5	3.1	2.4	13.0	1.7
purchased	Ribo- flavin	·SW	0.16	£.	-45	55.5	64.	87.7	8.2	.17	.16
food as	Thia- mine	Mg.	0.10	.32	•33	51.	8, 8,	.27	.27	2.41	.22
pound of f	Vitamin A value	I.U.	1,460	2,220	009	440 540 350	480	9,690	1,390	2,470 860	34,320 48,000
of 1	Iron	· Me	4.0	5.0	٨.5	4.7	5.0	4.5	4°0°0°	22.22	2 2 2
e portion	Calcium	* <del>3</del>	105	150	566	123 163 105	295	360	119	1,789	112
in edible	Total carbo- hydrate	en e	13.7	20.9	31.5	19.1	35.0	15.2	31.2	17.5 329.2 7.8	26.6
Mutrients	Fat	g g	9.0	முற்	Φ,	تُ صُمُ	0, C	00	2.3	8.6	1.2
Ma	Protein	en e	4.1	8.2	8.	494	10.9 6.8	9.1	15.4	4.0° 6.	ω Δ 4°0°
	Food en- ergy	Cal	Z	159	143	884	159	82 105	164	80 1,407 46	119
	in food as pur- chased	Pot.	31	00	9	3100	0 K	60	23	27	37
Water	of edible portion	Pct.	92.5	92.6 88.9	88.9	93°57°57°57°57°57°57°57°57°57°57°57°57°57°	88 90.9 4.09	89.9	22 2. 2.	92.4 95.4	88 88 2 2
	Food and description	LEAFY, CREEN, AND YELLOW VEGETABLES Continued Beans, snapContinued GreenContinued	Solids from total contents of can;	Strained (infant food)	Wax or yellow: Raw; refuse, ends	Total contents of can	Frozen	Eroccoli: Raw; refuse, leaves and tough stalks Frozen	Erussels sprouts: Raw; refuse, outer leaves Frozen	Raw; refuse, outer leaves and core  Dehydrated (MIL-C-826, 7-27-49)  Cabbage, celery or chinese, rew; refuse, outer leaves.	Raw: With tops; refuse, tops and scrapings Without tops; refuse, scrapings

0, 1, 8	7.62	148	173 188 203	250	350 163 26		335	522 213	338	121	54
цч годо,	13.7	1.7	2.0	2.9	6.00 0.00 0.00		رب 8	7.7	0 0 0 0	4 0 5 R	5.5
01.00.		.28	8.8%	-47	.71		.76	1.19	8,8,8	1.25	333
01.00.00	01.39	•22	8228	.31	3.37		.30	38.	यं यं ह	.31	1.53
54,480 79,750 54,980	40,580 521,300 28,760	10,920	39,580 300 14,020	8,490	21,450 61,970 7,070		21,950	34,230	1,710 5,060 21,370	2,950	1,390
12.7	100.7	ه. ه.	3.3	(8,3)	4.0.4		6.4	10.0	1 W Q	2.8	0,0°
118	1,117	2/410	2/ 477 177 508	603	885 849 186		655	1,022	69 194 728	328 2/876	100
27.7	383.6 50.8	17.2	21.8	15.2	15.0		21.0	32.7	9.1	29.6	36.1
0 n n n	6.5	Φ.	27.7	4.0	3.5		1.7	2.7	9.00	8 7.	8 8
12.3	13.6	5.5	11.8 6.7.9	12.0	7.7		11.3	17.7	~~~ ~~~ ~~~	7.2	13.7
128	121	82	122 388 82	117	47 28 28		711	182	47	130	201
3100	000	7	2200	37	0 0 8 4		36	00	31 37 27	0 0	0 25
92.2	92.4	91.8	88.33.6 6.56	87.2	93.8 93.8 63.3		96.6	86.6 86.6	94.8	89 89 80 80 80 80 80 80 80 80 80 80 80 80 80	74.3
Canned: Total contents of can Drained solids, 1 pound, E.P. 1/ Solids from total contents of can;	Strained (infant food) Dehydrated (MIL-C-839, 7-28-49) Carrots and peas, frezen	Chard, row: Leaves and stalks; refuse, inedible	Leaves and trimmings.  Coleslaw	Some leaves. Cress, garden, raw; refuse, stalks and	outer leaves. Cress, water, leaves and stems, raw Dandelion greens, raw Endive, raw; refuse, stalks and outer	lezves. Escarole, raw. See Endive. Kale:		leaves, and midribs. Trimmed; no refuse	Lettuce, raw: Headed; refuse, stalks and outer leaves All other; refuse, outer leaves Mustard greens, raw; refuse, stalks and	lower leaves. Okra, raw; refuse, stem ends Parsley, common, rew Peas, green immature:	Raw; In pod; refuse, shells

<sup>1/</sup> Not on as purchased basis. 2/ Calcium may not be available because of presence of oxalic acid.

Composition of Foods Used by the Armed Forces--Continued

82.3 Cal. Cal. Cal. Cal. Cal. Cal. Cal. Cal.
1
22 28 23 25 25 25 25 25 25 25 25 25 25 25 25 25
158     88     81     88     82       21     12     88     12     88     12       21     12     11     11     11     11
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28
5 8 8 8 7 8 8 8 7
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2 8 8 2 1 8 8 2 2 1 1 1 1 1 1 1 1 1 1 1
87
5 8 8 5 7 8 8 7 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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8 6 7 7 8 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1
89 72
% L'z
26 126 5.0
0 128 5.0 0 171 6.8

	13,330	36,370	086.61	
-		9.1		
	1,176	987	474	
	24.5	20.6	14.5	
	1.8	1.5	1.4	
-	13.2	11.0	8°9	
	135	113	&	
	0	16	0	
	89.5	89.5	93.7	
Raw:	Trimmed	Untrimmed; refuse, discarded leaves	Canned, total contents of can	Water cress. See Cress, water.

619 89 89	93	25 25 25 25 25 25 25 25 25 25 25 25 25 2	126	121	183	158 158 612	171 171 622 139	191
223	2.0	00000	8.1	9.0	0.1	ω ω η ω ω η	0,0,0,4	3.11.
	2	20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
2.11	.17	.15 .32 .197	• 32	88	60°	886	9889	.02
•33	8.	88.48°	•40	11.	.17	<b>बंब</b> छ	2262	1.00
43,330 36,370 19,980	4,380	4.770 (8.540) 16.880 17.490	8,540	20 4	40	04 dy.	8 8 % % 0 %	°©
10.9	2.4	(2.7) (1.8) 3.6 29.5 5.4	(2.0)	9.1	1.4	1.4	4.0.01	2.0
1,176 987 454	4	58489g	(50)	59	36	38	41 150 112	38
484	16.0	17.7 19.5 111.2 348.2 74.0	32.7	30.3	41.8	62.2 173.0	47.2 63.1 172.1 24.4	35.0
8.1.	1.2	9. 0. 51 (3.6)	2,3	96	r.	r. 4.00	7.827	200
13.2	4.0	44 6 94 81 0.081	8.2	1.5	2•3	0 N W	2.3 10.0 2.5	1.8
1135	81	93 446 359	165	119	162	172 235 667	183 239 88 88 88	108
010	12	00000	0	¥٥	0	000	9000	00
89.5 89.5 93.7	1.42	4.60 w.k.	89.2	88.8 79.8	89.8	58 89 58 95 50 50 50 50 50 50 50 50 50 50 50 50 50 50 5	88 87.1 89.3	91.4
Trimmed	TOWATOES AND TOWATO PRODUCTS: Towatoes: Raw; refuse, skin, stem end, and	inedible flesh.  Canned or cooked  Tomato juice, canned  Tomato cat sup or chili sauce  Tomato flakes  Tomato paste, canned	(C.Q.D. No. 143, 7-20-43). Tomato puree, canned Towato soup. See Miscellaneous, soups, canned.	CIMENS RRUITS: Grapefruit: Raw; refuse, rind and seeds	Grapefruit juice: Fresh	Unsweetened	Grapefruit-orange juice blend: Canned: Unsweetened Sweetened Frozen concentrate (13.5 fluid ounces). Lemons: refuse, rind and seeds	Lemon juice, canned: Unsweetened Concentrate (13.5 fluid ounces)

<sup>1/</sup>Not on as purchased basis.
2/Calcium may not be available because of presence of oxalic acid.

	Water	Refuse		Mut	rients	Mutrients in edible	le portion	of 1	pound of	I se pcoj	purchased	gq	
Food and description		in food as pur-	Food en- ergy	Protein	Fat	Total carbo- hydrate	Calcium	Iron	Vitamin A value	Thia- mine	Ribo- flavin	Niacin Value	Ascor- bic acid
CITRUS FRUITS Continued Lemon juice powder, synthetic, canned	Pot.	Pct.	Cal	eg l	ġ	E	Ŕ	· S	i.u.	-BM	· SM	· Mg	Mg.
(MIL-I-1005A, 10-14-49): Type I, with ascorbic acid Type II, without ascorbic acid Limes; refuse, rind and seeds Oranges; refuse, rind and seeds	1.7	0 0 4 8%	1,472 1,472 126 147	1 1 0 0 0 0 0 0	0,0,0,0	440.8 440.8 42.4 36.6	1,77 1,77 (1,38)	10.9	0 (620)	0.16 .16 (3.16)	\$ \$ £ £ £ \$	0.7 (.5.) (8.)	3,840 200 200 162
Orange juice: Fresh	87.5	0	199	3.6	φ.	49.9	8	ڻ	(850)	•35	.12	1,1	224
UnsweetenedSweetened	87. 10. 84. 84. 84.	00	15 <del>4</del>	3.6	ڻ ڻ	50.4	45	1.4	(440) (440)	2, 2,	స్త	1.0	191 191
Orange juice concentrate: Canned (12 fluid ounces) Frozen (13.5 fluid ounces)	\$ %	00	1,039	19.1	3.2	263.3 168.4	277	2.4	(2,320)	1.68	2,38	3.4.	1,003
(MIL-0-1026A, 10-14-49): Type I, with ascorbic acid Type II, without ascorbic acid Tangerines (including other Menderin	1.7	0006	1,561	2.00 4.40	0.00	434.0 434.0 35.1	295 1,158 (106)	15.9	1,130	2.2.2	.33.33	1.7	3,840 318 99
Tangerine juice, unsweetened: Fresh	89.2	00	176	4.1	1.4	41.8	88	(6·)	(1,920)	.31 (.28)	(.12)	1.1)	139
POTATOES AND SWEETPOTATOES: Potatoes: Raw; refuse, parings	77.8	16	318	7.6	4.	72.8	54	2.7	٤	.40	.15	4.4	<u>1</u>
Total contents of can	84.6 77.8	00%	262 378 272	7.7	ڹۺۺ	59.5 62.5	222	9 9 9	888	888	.13	w4w 840	574
refuse, 28 percent liquid.  Dehydrated (JAN-F-1073, 5-13-49)  Poteto chips	7.	000	1,619 2,469 1,619	32.2	3.2 168.4 3.2	373.2 222.9 373.2	114 (136)	18.2	180 (230)	1.38	6.7.0	20.4 (14.5) 20.4	102 50 102

98	(65) 65 149		58	36	18	77	2 2		25	141 178 232
2.5	0,00 1,00		6.2	2.5	1.6	3.6	0 1	ر به این	w r	1.2
8	482		.52	8.55	.17	•33	11.	11.	. 1	.27
.37	24.		8, 4	.13	8	4	8,8	ই ই	ş. 8	.22
2.7 3/30,030	3/22,890 3/40,180 3/92,670		1,280	590 830	570	1,000	88	888	8 &	190 250 360
2.7	3.6		4.2	7.7	5.3	9.8	2° c	3.2	3.6	0 0 0
117	74.5		115	123	16	241	65	9 60	8 8	45 57 100
108.8	135.7 113.5 392.3		42.8	61.3	57.3	90.3	23.1	35.9	30.7	10.0
2.7	٠.٠4 ورد		3.6	1.0	1.3	3.2	0, 0	ن بن بن	w r	4100
7.0	9.1		13.6	17.3	15.6	29.1	9. c	4.5	3.1	10.9
480	557 486 1,679		234	321	298	495	101	153	129	51 65
74	000		90	00	31	0	47	, 00	31	55 43 0
68.5	68.5 71.9 5.		66.5	80.9	74.9	71.6	87.6	0,88	88.3	91.7
Sweetpotatoes: Raw; refuse, parings	Canned: Sirup pack, total contents of can Vacuum or solid pack Dehydrated (MIL-P-3025, 8-3-49, Amend. 1, 11-30-49).	OTHER VECETABLES: Beans, lima: Immature seeds:	haw: In shell; refuse, shells	Canned: Total contents of can	Solids from total contents of cen;	refuse, 31 percent liquid. Frozen	Beets, common red: Raw; With tops	Canned: Total contents of can  Drained solids, 1 pound, E.P. 2/	Solids from total contents of can; refuse, 31 percent liquid. Strained (infant food)	Cauliflower: Raw: Refuse, leafstalks and main stalk Refuse, main stalk Frozen

1/ Year-round average. Recently dug potatoes contain about 91 mg. of ascorbic acid per pound. The value is only half as high after 3 months of storage and about one-third as high when potatoes have been stored as long as 6 months.

2/ Not on as purchased basis.
3/ If very pale varieties only were used, the vitamin A value would be very much lower.

Composition of Foods Used by the Armed Forces--Continued

	Ascor- bic acid	Mg.	88	242	36	139	25 641 689	1 2	38 163	4	244
-	Niscin b	Mg.	2.9	2.42	6.3	4.1	, 0, 0, 1, 10, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	20.4	6.9	(4-)	3.7.7
purchased	Ribo-	Mg. 0.11	.37	22.09.	.45	.49	4854	1.83	<u> </u>	(40.)	30.06.
food as p	Thie- mine	Mg. 0.15	.48	.15	<u> </u>	1.77	1848	.41	4.13	(90°)	72.6%
pound of f	Vitamin A value	0 0	680	920	500	1,640	100 Trace 60	00	210	(66)	0 70 1,280
		• 4	<u> </u>	8 7 8 리리리	3 8 7 J	4 10	0.0 0.0		u 4		N N N
on of	Iron	1.4	6.1	2.7	1.3	11.4	0.000	4.1 (3.6)	2.1	1.7	12.2
le porti	Calcium	<u>143</u>	16	18 23 15	36	168 219	32 59 113 132	37 (32)	137	251	202 82 212
Nutrients in edible portion	Total carbo- hydrate	Gm. 10.6	35.5 66.0	73.1	78.5	103.1	8.6 21.7 16.4 18.6	16.5	44.0	19.7	4.64 34.44 4.45
rients	Fat	0.6	2.1	2 6 0	2.9	2.7	سْصْ با ف	1.2	5.0	4	1.8
Mut	Protein	Gn. 3.7	6.4	12.3	14.5	42.7	2.2 4.3 13.2	6.6	6.0	1.0	2.7
	Food en- ergy	Cal.	160	302	350	590	1673.93	38	193	\$	277 45 147
Refuse	in food as pur- chased	Pct. 37	23	3200	0 (29)	06	0 6 6 0 0 0 0 0	60	90	59	22 51 15
Water	of edible portion	Pct. 93.7	73.9	80.5 75.5 75.5	78.0	65.9 86.2	96.1 92.7 90.1 92.4	91.1	87.5	87.6	78.6 93.6 89.1
	Food and description	OTHER VEGETABLES Continued Celery, bleached, raw; refuse, leaves and trimnings.	Raw: With husks; refuse, husks and cobs Without husks; refuse, cobs	Total contents of can	Frozen: Kernels Corn on cob; refuse, cobs	Cowpeas, raw: Immature seeds Young green pods (including asparagus-	Cucumbers, raw; refuse, parings.  Eggplant, raw; refuse, calyx and parings.  Kohlrabi, raw; refuse, tops and parings.  Mung bean sprouts, raw	Raw; refuse, skins	Chions, mature:  Raw; refuse, skins and rootlets  Dehydrated, Type I, flaked	Onions, young green; refuse, tops, skins,	Parsnips, raw; refuse, scrapings Radishes, raw; refuse, tops and rootlets. Rutabagas, raw; refuse, parings

(0) (0) 50 113 123	13	573	6	ರ್ಗಾರ	82	37 (4, 18, 18, 18, 18, 18, 18, 18, 18, 18, 18
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<u> </u>	21.	74.	8.	8.89	.22	digg: 1444
	91.	£.4.6.	දී	886	.12	6. 1 6. 1 6. 1 6. 1 6. 1 6. 1 6. 1 6. 1
150 790 1,010 20 3/	360	(0) (0) (1) (1)	4,850	140 150 370	11,930	6,140 (7,720) 33,730 7,540 1,300
(2,3 (8,8) (1,5) (1,0) (	1.2	8997	4.5	1 1 2 8 8 8	2.1	(5.0) 222.2 29.1 1.8 1.8
158 158 158 158 136	\$	114 86 27	S	138	89	445833244
15.4 13.6 13.6 70.8 21.3 28.0 31.3	59.6	415.0	74.9	49.5 89.4 72.6	55.1	36.8 97.2 69.0 303.7 394.1 17.3 69.9
81 20 4 4 4 6 8 12	1.6	11.4	1.4	ڡ۫؈ٛڡ۫	4.	
28.18.0 28.19.0 17.3 17.3 17.3 17.3	1.2	8 6.4 7.	9.1	٥ • • • • •	4.3	2 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
208 321 34 128 134 134	232	1,517	287	189 329 277	216	1,138 1,138
0000 4 50	12	000	0	000	9	33.73
93.2 86.3 79.1 90.9 90.9	28	23.5 83.9	82.3	88.4 79.8 83.1	85.4	90.9 77.3 82.6 74.8 74.8 74.8
Sauerkraut, cerned, total contents of cen Soybean curd	FRUITS, OTHER THAN CITRUS: Apples: Raw; refuse, skins and cores	Dehydrated (MIL-A-1035A, 9-23-49) Dried Apple juice, fresh or canned	Apples and apricots, canned, strained (infant food).	Applesance, canned; Unsweetened Sweetened Strained (infant food)	Apricots: Raw; refuse, pits	Canned, total contents of can:  Water pack Sirup pack Strained (infant food)  Dehydrated or dried (MIL-A-1380, 9-12-49) Dehydrated, powdered (MIL-R-2406, 8-24-50) Frozen  Avocados, raw 4/: refuse, seeds and skins Bananas, raw; refuse, skins Bananas, baking. See Plantain.

<sup>1</sup> Vitamin A based on yellow corn; white corn contains only a trace.
2 Not on as purchased basis.
3 Vitamin A value ranges from 4,400 to 24,240 I.U. per pound.
4 Data on proximate constituents apply to Fuerte variety.

Composition of Foods Used by the Armed Forces -- Continued

	Water	Refuse		Mut	Mutrients	in edible	e portion	of 1	pound of fa	food as p	purchased	77	
Food and description		in food as pur- chased	Food en- ergy	Protein	Fat c	Total carbo- hydrate	Calcium	Iron	Vitamin A value	Thia- mine	Ribo- flavin	Niacin	Ascor- bic acid
RUITS, OTHER THAN CITRUS-Continued	Pot.	Pct.	Cal.	Çin.	GH	Gm	- M	¥	I.U.	Mg	¥	瀬	· MR
Blackberries: Rew	84.8	0	260	5.4	4.5	56.8	145	4.1	890	0.16	0.19	1.6	ま
Canned, total contents of can: Water pack	88.7	00	194	3.2	w 0 0	42.7	82 83	(3.2)	833 830	88	8,8	1.0	8,8
Blueberries:	83.4	0	512	2.7	2.7	9.89	73	3.6	1,290	(111)	(60°)	(1.2)	74
Canned, total contents of can:	90.	0	168	တ္ခ	1.8	40.9	ß	(2.3)	180	90°	96	ڻ	9
Sirup pack	73.	00	279	1.8	2.4	118.0	2.22	(2.3)	180	8.8	& &	(1.2)	ও ব্র
Cantaloups, raw; refuse, rind and	94.0	53	43	1.3	4	9.8	199	؈ٛ	1/ 7,290	.10	80	1.1	69
cavity contents. Cherries, sour, sweet, and hybrid, raw;	83.0	9	261	4.7	2.1	63.2	77	1.7	2,830	.21	.25	80	36
refuse, pits. Cherries, red, sour, pitted, canned	9.98	0	218	3.6	4.1	24.0	50	(1.4)	3,280	.13	80.	ထ	25
Raw Dehydrated (MIL-C-827, 7-27-49,	87.4	00	218	1.8	3.2	51.3	372	2.7	200 (1,370)	.14	(.09)	4.1	155
Amend, 1, 10-21-44). Cramberry sauce, sweetened, canned or	48.1	0	900	ů.	1.4	233.4	(36)	(1.4)	(140)	(60°)	(60°)	(-5)	80
Conked.	84. 4.	ω	241	5.3	6.	59.8	158	4.0	530	.16	1	1	160
With pits	88	13	1,121	8.7	2.0	297.8	\$ 50 50 50 50 50 50 50 50 50 50 50 50 50 5	& c	220	.35	.38	9 0	03
Pitted Dates, dehydrated, powdered (MIL-R-2406, 8-24-50).	1.5	00	1,587	12.3	3.5	421.00	404	11.8	000	04.	‡ <sub> </sub>	5. I	9 1
Figs: Rew Canned, sirup pack, total contents	78.0	00	357	9.6	1.8	89.0	245	2.7	360	.25	15	1.6	1-13
or can. Dried	ঠ	0	1,224	18.2	5.4	310.5	<del>24</del>	13.6	370	.77	•53	7.8	0)

6	149	4	17	Trace	9,080	¥æ.	108 124 173	31	19 12 18 18 18	15	2000	& & & &
1.6	1	φ	1.0	(1.0)	111	4.5	2.8	3.6	3.1 2.6 24.5 	ů.	000	Trace
.00	ſ	et.	.17	.21	111	.08	(.30) .17	•19	8888 14	.16	88.01	8,9
.05	1	.21	.26	.17	1 1 1	.13	(¥.	8	8834 8	8	<u> </u>	.17
730	1,330	270	330	ŀ	111	990	(890) 19,040 5,410	3,530	2,366 2,366 3,766 3,369	96	888	11,900
1,8	2.3	2.1	2.6	1.4	יטֿיטֿיי	2.8 (1.1)	400	2.4	1.8 1.8 31.3 40.4	1.1	e e e e	1.3
41	100	8	75	45	599 599 154	118 (49)	159 27 62	32	23 23 23 25 25 25 25 25 25 25 25 25 25 25 25 25	49	288	27
4.4	44.0	52.7	73.5	82.6	447.6	24.3	68.1 51.6 30.9	48.0	30.9 82.6 68.6 315.1 408.1	59.6	37.2 83.5 59.5	0.69
<u></u>	ڻ	5.0	1.8	0	0 0 0 0 0	2.4	2.7	4.		1.5	ۺۺڣ	11.0
1.8	3.6	5.0	3.5	1.8	Tracte	0.4	2.5	2.0	2.3 1.8 3.6 17.7 1.8	2.6	3.2	w v rvœ
317	178	243	292	303	1,140	276	283 198 120	183	123 308 271 1,233 1,559	236	308	25.2
0	0	22	m	0	000	13	0 ¥ %	12	000000	17	000	₩ <b>3</b>
9.08	88.9	81.9	81.6	81.		80.6	82.9 81.4 88.7	6.38	92.3 80.9 83.5 7.1.7 78.9	82.7	91.2	78.2
Fruit cocktail, canned, total contents	of can. Gooseberries, raw	Grapes, rew: American type (slip skin) as Concord, Delaware, Niagara, and Scuppernong;	refuse, skins and seeds.  European type (adherent skin) as Malaga, Muscat, Sultanina	(Thompson Seedless), and Flame; refuse, seeds and stems. Grape juics, bottled, commercial Grape beverage crystals, synthetic (MIL-G-1057A, 9-8-49);	Type I, without ascorbic acid	Guavas, common, raw; refuse, skins Honeydew melon, raw; refuse, rind and	cavity contents.  Loganberries, raw  Mangos, raw; refuse, seeds and skin	Raw; refuse, pits and skins	Water pack Sirup pack Strained (infant food) Dehydrated or dried (MIL-P-1379, 9-12-49) Dehydrated, powdered (MIL-R-2406, 8-24-50) Frozen	Pears: Raw; refuse, skins and cores	Sirup pack	Seedless kind

	Water	I.		Mut	rients	Mutrients in edible	e portion	a of 1	pound of 1	food as	purchased	g	
Food and description	of edible portion	in food as pur- chased	Food en- ergy	Protein	Fat	Total carbo- hydrate	Calcium	Iron	Vitamin A value	Thia- mine	Ribo- flavin	Niacin	Ascor- bic scid
FRUITS, OTHER THAN CITRUS Continued	Pot.	Pct.	<u>ड</u> ि	E E	اق	å	瀏	潮	I.U.	-SM	Mg.	· Mg	NE NE
Fineapple: Ram; refuse, crown, core, and parings. Canned, sirup pack, total contents of	85.3 78.0	47	126 355	1.0	0.0	33.0 95.8	39	0.7	360	0.20	90.0	0 17.00	75
Frozen Pineapple juice, camed Plantain or baking banana, raw; refuse,	76.8 86.2 66.4	2300	388 221 418	3.4.8	۵ 0 1	100.8	388	2.3	360	244	864	ο. σ. τ.	86 14 49
Plums (all, excluding prumes), raw: Refuse, pits only Refuse, pits and skins	85.7 85.7	13.5	218	3.0	စ္ခဲထိ	55.6 49.8	228	1.9	1,510	8 %	.18	2.1	28
Sirup pack, total contents of can;	78.6	4	329	1.7	4	88	35	4.8	066	77.	1.	1.6	77
Frunes, canned, strained (infant food)  Prunes, dehydrated or dried; refuse, pits	72.5	0	439	υ φ 0 ω	2.00	115.3 288.3	118	6.8	3,340	4.04	.21	6.9	44
Prunes, dehydrated, powdered (MI-R-2406, 8-24-50).	1.5	0	1,580	13.6	3.6	417.7	318	23.2	ĵ L	;	1	ì	ŀ
Prume juice, canned	8,81	00	321	1.8	2.3	87.6	(114)	(8.2)	240	(±;	(•36)	2.4	(5) Trace
Raspberries: Black, raw	90°6	0	341	6.8	7.3	71.3	182	4.1	0	ı.	(•30)	(1.3)	(109)
Raw Frozen	84.1	00	259	40.	1.8 4.1	62.7	182	4.1	360	ដូស	(*30)	(1.3)	109
Raw; refuse, leaves	62.9	0 33	2,8	ដ ភ ភ	மீம்	163.4	2/ 158	r r v	100	<u>ల</u> ల్ల	11	ψ.ψ.	8,82
Frozen	78.9	0	358	1.8	Ů	90.8	2/ 191	1.8	110	60.	i	۲.	27
Raw; refuse, stems and caps	89.9 72.0 92.1	401	92 68	1,07	1282	36.2	122	8.0 8.7.4	250 180 1,240	£6.01.	ស្សដ	w. 0. 4.	261 136 13

BEVERAGES: Beer (average 4 percent alcohol)	90.2	0	3/	2.7	°.	20.0	18	0.	(0)	Trace	-12	.7	9
Ginger ale	88.	00	158	1 1	1 1	4.42	1 1	1 1	1 1	!!	1 1	1 1	1 1
Cocoa, beverage, powder (MIL-C-3031, 8-30-49);		c	1 602	φ φ	2	227.8	6/8	Ç	3	6	2 63	C	5
Type II, without ascorbic acid	4.4	0	1,602	48.6	22.7	337.8	1,00	9 9	2 R	3.6	2.63	J W	4
Coffee, soluble product, Type II (MIL-C-1019A, 12-19-49, Amend. 1, 2-28-50):								1,277					
Class A, without ascorbic acid	3.0	0	1,001	Trace	Trace 4/(272.)	/(272.)	763	10.9	0	Trace	1.41	100.3	0
Class B, with ascorbic acid	3.0	0	1,001	Trace	Trace 4	/(272.)	763	10.9	0	Trace	1,41	100.3	<b>,</b> 362
Milk, malted, beverage. See Milk and Milk Products. Soybean milk (without added calcium and vitamins).	92.5	0	149	15.4	6.8	9.5	35	3.2	t 1	4.	.19	1.2	0
Tes, soluble product (Q.M.C. Pur. Descr., 8-16-50); Type I, without ascorbic acid	4.3	0	1,034	Trace	Trace 4/		27	10.9	0	Trace	1.82	8.00	0
Type II, with ascorbic acid	4.3	0	1,034	Trace	Trace 4	/(281.)	27	10.9	0	Trace	1.82	46.8 4	•256
MISCHILANEGUS: Bouillon, Type III, powdered (MIL-B-1112A, 5-17-50).	w r	0	ł	89.4	5.4	ł	ł	1	1	ł	ŀ	1	1
Chocolate: Bitter or unsweetened	2,3	0	2,290	(25.0)	(25.0) 240.2 5/	/ 132.6 2/	2/ 445	0.0	270	.21	1.09	4.5	(0)
Plain	1.4	0	2,145	(6.1)	135.3	284.7	284.7 2/ (286)	12.7	(150)	(41.)	(0.70)	(2.9)	(0)
sweets, candy. Milk, with almonds. See Sugars, sirups, and other sweets, candy.													
Cocoa, breakfast, plain, dry powder Custard pudding, canned, strained (infant food).	ω.Κ. 0, 5,	00	489	(36.3)	108.1	83.1	2/ 568 418	52.7	(120)	.55	1.74	10.4	2 (0)

1/ The vitamin A values range from about 30 I.U. per pound of white fleshed plantains to 4,200 I.U. per pound of deeper yellow varieties.

2/ Calcium may not be available because of presence of oxalic acid.

3/ The value excluding energy derived from alcohol is 89 calories. If the energy from alcohol is considered available, the value is 215 calories.

4/ Total reducing sugars.

5/ Approximately one-third of this total amount of carbohydrate calculated by difference is starch and sugar. The remaining portion is

made up of materials thought to be utilized only poorly, if at all, by the body.

3	Ascor- bic	W.	(0)	l	1 1		84	1873.73		00	00	00		: 1	1	;	00
70	Niacin	भू	<u></u>	l	1 1		2.4	4.4.6.	,	7.1	ω <b>σ</b>	000	<del></del>	3,5	1	:	2.4
parchased	Ribo- flavin	Ä	(0)	ŀ	00.		क्षं सं	భ్య భ	`	94.	1.17	4.6	3	800	1	8	90.
food as 1	Thia-	Mg	(0)	Trace	05 05		ಲ <u>ೆ</u> ಕ	(0)		.33	8 6	77.80		8,00	ŀ		00
pownd of f	Vitamin A value	I.U.	( <u>o</u> )	1,140	240		1,410	1,410	`	009	2,490	1		1 0	8	ì	00
on of 1	Iron	Ng.	(0)	6.1	6,1		2 4 2	ν.ν.ι. 4 ουα		13.2	13.6	12.3	}	10.0	1.4	ڻ	4.1
le portion	Calcium	·¥	(0)	331	331		45	202		454 681	311	326	Ĩ	340	; Z	27	かだ
s in edible	Total carbo- hydrate	មុំ	°	15.2	9.9		9.5	10.0		239.7	27.7	253.3		107.1	40.4	0.00	<u> </u>
Mutrients	Fat	Ġ	0.5	51.4	80.0		ي ق	0,80,7		4.0.4	47.7	49.9	1	18.6	12.3	p°4	8 4
Mar	Protein	Gm•	388.6	5.7	6.9		3.2	0 0 0 0 0 0		18.2	16.8 25.4	100 00 00 00		31.3	21.8	10.9	(9.1)
	Food en- ergy	Cal	1,520	504	728 488		316	488 716		1,254	1,315	1,477	3	28	362	132	233
Refuse	in food as pur- chased	Pot	0	16	16		00	000		00	0 0	00	)	00	0	0	00
Water	of edible portion	Pot.	13.0	75.2	71.8		93.2 79.5	4.05.1		7.9%	35.7	27.8		64.7 82.4	83.2	91.6	90.9
	Food and description	MISCELL ANEOUS Continued Dessert powder, prepared. See Sugars,	Sirups, and other sweets.  Gelatin, dry, plain	Green; refuse, pits	Mission; refuse, pits	pits. Pickles:	Dill, cucumber	pickles).  Sour, cucumber or mixed	(MIL-P-1438A, 5-31-50). Pudding, steamed, caned (MIL-P-1499A, 6-30-50):	Type I, plum	Type III, date	Type V, steamed fruit cake	Soups, canned: 1/	Condensed Ready-to-serve	Beef: Condensed	Ready-to-serve	Condensed

110	11	22 (0)2	00	40	32	2477	(0)	0)	<u> </u>	<u>©</u>
2.7	! !	0 0 0	2.5	2.3	2.7	4 2 2 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2.7	8.4	12.3	128.0
82.4	1 1	36.	91.	2.4	%. 81	23 23	90•	•37	.91	9.38
8 8 8	1 1	884	8.0.	3.50	န်န်	81.0.6.0.	16.01	5.47	5.34	2.05
1,040	5 0 8 8	730 360 21,530	22	(1,630)	(4,540)	11,130	2,120	1,290	1,460	<u>©</u>
4.0.0.	12.7	400	ۍ تې	5.4	3.2	1.0 1.4 2.5 7.	17.7	12.3	20.4 28.1 25.9 2.3	22.2
68 36 173	123	236 386 73	300	118	95	118 59 104 91	154	118	132 663 558 32	114
35.9	22.2	43.1 32.7 32.2	47.2	92.6	66,3	26.3 41.3 34.5	136.2	281.5	250.2 258.3 40.9 (22.7)	59.0
8.6	8°.6	23.6	15.9	7.00	8.2	42.44	106.2	43.1	48.1 50.4 5.9	1.8
12.3	15.9 8.2	10.0	22.2	23.6	8.2	15.0 7.7 10.9 10.9	49.0	55.8	101.2 89.9 25.9	(48.1)
273	306	406 359 247	424	520	335	295 149 186 229	1,696	1,768	1,788 1,808 208 56	388
000	00	000	00	00	00	0000	0	0	0000	00
87.2 93.6 87.4	81.7	22 22 28 28 20 20	80.7	72.4	81.4	83.2 91.6 87.2 87.7	2.0	5.2	3,5	70.9
Chicken: Condensed Ready-to-serve Strained (infant food)	Clam chowder: Condensed Ready-to-serve Cream soup (asparagus, celery, or	Condensed  Ready-to-serve Liver soup, strained (infant food)	Condensed	Condensed	Condensed Ready-to-serve	Condensed  Ready-to-serve Strained (infant food) Vegetable and lamb soup, strained (infant food).	Soups, dehydrated: Mix, with chicken (added thismine) (Indiv. Frigid Trail Ration	Pur. Descr., 8-8-50). Noodles, with chicken (added thiamine) (MIL-S-1049A, 10-14-49).	Pre-cooked (Q.M.C. Pur. Descr., 8-10-50): Type I, green pea (added thiamine) Type II, beans (added thiamine) Soybean sauce	Compressed, baker's

1/ All the ready-to-serve soups are calculated from equal weights of the condensed soup and water except cream soup which was based on equal weights of the condensed soup and milk.

#### APPENDIX

### Notes on Special Foods or Food Groups

Meat, poultry, fish.—Much of the meat procured by the armed forces is selected, cut, boned, and frozen in accordance with specifications that cover each step. As a result, the composition may be considerably different from that of meat in regular civilian supplies. Where information permitted, data were included in the table for meat procured under specifications. For example, under the heading Beef, boneless, frozen (4-way) items are listed with figures from studies conducted by the Research and Development Branch of The Quartermaster Corps. Present specifications for frozen boneless beef call for four categories of boneless cuts: (1) Roasts or Steaks (dry heat)—that is, cuts for which cooking by dry heat methods such as broiling or roasting may be used; (2) Roasts or Steaks (moist heat)—that is, cuts for which cooking by moist heat methods such as pot roasting or making Swiss steak are recommended; (3) Diced beef cuts suitable for braising or stewing; (4) Ground beef—cuts to be made into patties or loaves.

Meat of medium fatness, unless otherwise specified, was used for each kind of animal as a basis for the data entered in the present tables. Data for the composition of thinner or fatter meat have been entered also for the wholesale carcass (or side) of each kind of animal.

Reliable average values on proximate composition of untrimmed wholesale cuts have long been available, but figures comparable in accuracy do not exist for average retail cuts that have had some fat and bone and sometimes small amounts of lean removed. Data in this table for retail cuts of lamb, pork, and veal are from wholesale cuts considered most suitable. For beef also, data are based on wholesale cuts but the figures have been adjusted to allow for a moderate amount of trimming in the case of cuts from which considerable fat and bone are customarily removed.

Because fat is a much more concentrated source of calories than lean meat, it is obvious that (1) trimming before and after the meat comes to the kitchen, (2) loss of fat during cooking, and (3) discarding fat as plate waste, would mean that the portion of meat eaten furnishes many fewer calories than the potential value of the original wholesale cut. However, data are not now available to correct for all three factors listed.

Mineral and vitamin analyses have not been reported for many fresh and cured meats, and the values shown in these tables were in most cases calculated by applying factors to the protein content as follows:

	Cont	ent pe	r 100 gran	s of protein	: 1/
	Calcium	Iron	Thiamine	Riboflavin	Niacin
	Mg.	Mg.	Mg.	Mg.	Mg.
Beef, fresh	58	15	•43	•89	24.0
Lamb, fresh	58	15	.89	1.24	28.9
Pork, cured	58	15	4.13	1.11	23.4
Pork, fresh	58	15	4.86	1.17	26.0
Veal, fresh	58	15	•73	1.33	33•5

<sup>1/</sup> The factors for calcium and iron were based on suggestions by H. C. Sherman, Chemistry of Food and Nutrition 1946. The others were based on the various investigations reported in the literature that provided a basis for relating vitamin content to protein content.

Fortified foods. -- Specifications for many foods used by the armed forces include fortification with certain nutrients. In most cases the minimum level named in the specification is entered in the table and the fact that the product has the added nutrients is shown in the description of the item.

Enriched flour. -- The minimum levels for the required nutrients covered by the Federal enrichment legislation for flour have been entered in these tables, as follows: Thiamine 2.0 mg., riboflavin 1.2 mg., niacin 16 mg., and iron 13 mg. per pound. Vitamin D, an optional ingredient, is not included in these tables, and it has been assumed that manufacturers ordinarily do not add calcium, another optional ingredient, except in self-rising flours.

Self-rising flow.--As usually prepared, self-rising flow contains dicalcium phosphate, although sometimes a sodium salt is used. Self-rising flow containing the calcium salt is estimated to have approximately 1,235 mg. of calcium per pound, and this figure appears in the table. The minimum amount required for enrichment is only 500 mg. per pound, and hence both the enriched and the unenriched self-rising flows, as customarily prepared, have more calcium than the minimum level for enrichment.

Bread and rolls. -- Data on the composition of two breads for the armed forces, made with enriched flour and labeled as Field and Garrison products, are included in the table. The data are based on analyses made several years ago of breads used by the Army, but are believed to approximate current products.

Several kinds of plain and enriched commercial breads and rolls also have been included, because bread used in some training areas is obtained at local bakeries. The mutritive values for these products have been calculated from formulas considered typical of present-day commercial practices. Included are formulas with little or no nonfat milk solids and with 2, 4, and 6 percent, flour basis (pounds of milk solids per 100 pounds flour). Present information indicates the average amount of milk solids in breads containing milk is between 3 and 4 percent (flour basis). Bread made with 4 pounds of milk solids to 100 pounds of flour contains approximately 2-1/2 percent of milk solids in the fresh loaf after baking. A significant portion of the calcium content of bakery breads may come from a mold inhibitor, and in the calculations for commercial white bread it was assumed that 0.2 pound of calcium propionate was used to 100 pounds of flour accounting for about 110 mg. of the calcium figure in the table.

In calculating the nutrients for enriched bread it has been assumed that the breads were made with unenriched flour and that the minimum amounts of the nutrients needed to meet the proposed Federal Standards for enrichment in addition to the amounts contributed by the ingredients of the formula would be supplied by adjusted enrichment preparations. However, if enriched flour was used along with significant quantities of nonfat milk solids, the level of these nutrients, riboflavin especially, would be higher. The effect of increasing milk solids by 2-percent increments may be observed by comparing the nutrient content of the unenriched breads having nonfat milk solids at the different levels specified.

Breakfast food cereals often include one or more of the following nutrients: Iron, thiamine, riboflavin, and niacin. Except for enriched farina and enriched grits, there are at present no Federal Standards for addition of nutrients, either as to the nutrient that may be added or its level in the finished product. Values for the breakfast foods with added nutrients shown in these tables are averages of composition data reported for a number of commercial products having the same generic classification and approximately the same level of added nutrients. Before using these data in any particular calculation, it would be well to check information given on the packages of several kinds in the current market to see if values in the table are applicable.

Canned foods.—Composition data are based on canned foods as ordinarily purchased unless otherwise specified and do not take account of extreme storage or handling conditions nor of reheating losses. Canned foods would be expected to lose significant amounts of their vitamin values if subjected to very high temperatures for several months. Under such circumstances the thiamine values for the canned meat, fish, and poultry items probably should be reduced to approximately one—third of the values shown and the thiamine and ascorbic acid values of the canned fruits and vegetables to approximately two—thirds of the values in the table.

Data on canned vegetables are presented on three bases: (1) On the total or net contents of the can, or a composite sample of liquids and solids as they occur in the can, to be used when both solids and liquids are eaten; (2) on drained solids only, for use when the weight of the item is in terms of the drained portion; (3) on total net weight when the liquid is treated as refuse. Federal specifications for drained weights of No. 10 cans effective July 1950, or in process of publication at that time, or in common use by government agencies were used in conjunction with data on net weights published by the National Carmers Association 3/ to obtain figures for proportion of solids.

Frozen foods are included in this table because of their wide use. The data shown were based on summaries of analyses so far as possible, but for some items it was necessary to impute data either from another form of the same food or from a similar food.

# Application of Data in the Table with Special Reference to Refuse

The data in the table are applicable to products having the percentage refuse specified in the second column of figures. The composition values may be multiplied directly by the weight of a food in pounds to estimate the nutrient values provided by the edible portion of the raw food.

Refuse figures shown refer to the percentage of the total weight of inedible material such as bones, pits, and shells usually discarded in preparing food. For some foods the figures include portions that could be eaten but as a rule are discarded, for example, potato parings and tough outer leaves of vegetables. (See note on canned vegetables for treatment of caming liquids.) For fruits and vegetables, data on refuse have been based in general on products in good condition; the figures would not apply in instances where peeling and trimming are excessive, nor to products with excessive bruising, insect infestation, or rot.

For any particular item the figure for refuse may be too high or too low for military situations. In such cases, if the percentage refuse is known and differs significantly from the figure cited, a correction may be made by adjusting the weight of the food before calculating the nutritive values, which is simpler than recalculating each value on the basis of a different refuse content. At the same time, allowances for food loss due to such causes as shipping damage, spoilage, and pilfering, also may be added to the corrected figure for refuse to give a figure for the percentage of the total part unused. The new weight of food to be multiplied by values shown in the table can be found from the following formula:

100 minus new percentage of actual adjusted weight of food to

unused part x weight of food procured = be multiplied by composition data

100 minus percentage refuse shown in the table

<sup>3/</sup> Net contents statements for canned food labels revised 1949.

To illustrate, if the refuse for a food is actually 35 percent and the table shows only 25, and if in addition the loss in the supply of that item is estimated at 5 percent, the total unused portion of food is 40 percent, and the nutritive values based on a supply of, say, 150 pounds should be calculated by considering the weight to be only 120 pounds:

$$\frac{100 - \sqrt{35} + 5\sqrt{}}{100 - 25} \times 150 = 120$$

The table below shows the approximate adjustment at 5-percent intervals to be made in the weight of each 100-pound unit of food. Directions for use are as follows:

In left-hand column find percentage refuse figure cited for item. In heading find the corrected figure for percentage refuse and/or loss. The new factor is found where the two lines intersect. Multiply this factor by the weight of food actually procured and move the decimal point two places to the left. The result is the new weight to use for multiplying the calorie and nutrient values in the composition table.

Table of correction factors for adjusting weight of food procured when percentage

		rei	use i	n the	1000	. comp	ositi	on ta	pTe q	oes r	ot ap	рту			
Refuse figure					Corre	cted	perce	ntage	refu	se er	d/or	loss			
in table	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75
Percent						Co	rrect	ion f	actor	s					
0 5 10 15 20 25 30 35 40 45 50	95 100 106 112	90 95 100 106 112	85 89 94 100 106 113	80 84 89 94 100 107 114	75 79 83 88 94 100 107 115	70 74 78 82 88 93 100 108 117	65 68 72 76 81 87 93 100 108 118	60 63 67 71 75 80 86 92 100 109 120	55 58 61 65 69 73 79 85 92 100 110	50 53 56 59 62 67 71 77 83 91 100 111 125	45 47 50 53 56 60 64 69 75 82 90 100 112	40 42 44 47 50 53 57 62 67 73 80 89 100	35 37 39 41 44 47 50 54 58 64 70 78 88	30 32 33 35 38 40 43 46 50 55 60 67 78	25 26 28 29 31 33 36 38 42 45 50 56 62

#### Estimation of Energy Value

Calories are the units used for expressing food energy. In this publication as in Agriculture Handbook 8, calories have been calculated by multiplying the number of grams of protein, fat, and carbohydrate present in the food item by the factors shown on the next page. For items consisting of a mixture of foods, the factors for the different ingredients were weighted in the relative proportions used to make the final products.

Specific Physiological Energy Factors for Calculating the Calorie Values of Foods

Total on Total Consess		_	y factors to be ients in foods
Food or Food Group	Protein	Fat	Carbohydrates (by difference)
	Cal./gm.	Cal./gm.	Cal./gm.
Meat, poultry, fish	4.27 4.36	9.02 9.02	<u>1</u> / 3.68
Milk, milk products	4.27	8.79	3.87
Butter Other animal fats	4.27	8.79 9.02	3.87
Tats, vegetable:  Margarine	4.27	8.84	3.87
Other vegetable fats and oils, hydrogenated fats	\$100.000	8.84	हम्बं कृष्यं
Cane or beet sugar	***	(miles)	3.87
Glucose, other monosaccharides	****	0-0-0	3.68
Honey	3.36	0 0=	3.68
Jams, jellies, marmalades, preserves	3.36	8.37	3.87
Molasses, other table sirups	(c) (m)		3.87
Barley, light	3.55	8.37	3•95
Bran (almost wholly bran)	1.82	8.37	2.58
Bran (40 percent) flakes	1.82	8.37	3.26
Bran, raisin	2.20	8.37	3.34
Buckwheat flour, dark	3.55	8.37	3.95
Buckwheat flour, light	3.78	8.37	3.95
Corn flour	3.46	8.37	4.16
Corn flakes	3.46	8.37	4.16
Corn grits, degermed	3.46	8.37	4.16
Corn meal, whole ground, unbolted	2.73	8.37	4.03
Corn meal, whole ground, bolted	3.10	8.37	4.10
Corn meal, degermed	3.46	8.37	4.16
Crackers, graham	3.59	8.37	3.78
Crackers, soda, plain	4.23	8.37	4.12
Farina	4.05	8.37	4.12
Macaroni, spaghetti	3.91	8.37	4.12
Noodles, egg	3.91	8.80	4.12
Oatmeal, rolled oats	3.55	8.37	4.07
Popcorn	2.73	8.37	4.03
Pretzels	4.00	8.37	4.12
Rice, brown	3.41	8.37	4.12
Rice, white or polished	3.82	8.37	4.16
Rice, flakes, puffed	3.82	8.37	4.16
Rye meal or whole grain	3.05	8.37	3.86
Rye flour, dark	3.00	8.37	3.82
Rye flour, medium	3.23	8.37	3.99
Rye flour, light	3.46	8.37	4.07

<sup>1/</sup> Brain, heart, kidney, liver, 3.87 calories per gram; tongue, shellfish, fish products, 4.11 calories per gram.

Specific Physiological Energy Factors for Calculating the Calorie Values of Foods--Continued

Specific Physiological Energy Factors for Calc	Physiological energy factors to be			
Food or Food Group	applied to the nutrients in foods			
	Protein	Fat	Carbohydrates (by difference)	
	Cal./gm.	Cal./gm.	Cal./gm.	
Cereals and other grain productsContinued			0.4	
Rye Wafers	3.05	8.37	3.86	
Starch	3.87	8.37	4.12	
Tapioca	3.87	8.37	4.12	
Wheat, 97-100 percent extraction	3.59	8.37	3 <b>.</b> 78	
Wheat, 85-93 percent extraction	3.78	8.37	3.95	
Wheat, 70⊶74 percent extraction	4.05	8.37	4.12	
Wheat and malted barley cereal	_	8.37	3.86	
Wheat germ	3.59	8.37	3.78	
Wheatflaked, puffed, rolled, shredded, whole meal.	3•59	8.37	3.78	
Other refined cereals	3.87	8.37	4.10	
			4.12	
Wild rice	3.55	8.37	3•95	
Beans, other legumes (pulses); nuts:	0.45	0 05	a (O	
Soybeans-flakes, flour, grits	3.47	8.37	1.68	
Other legumes, nuts	3•47	8.37	4.07	
Vegetables:		0		
Beans and peas, immature, shelled	3.47	8.37	4.07	
Mushrooms	2.43	8.37	1.24	
Potatoes, sweetpotatoes, starchy roots	2•74	8.37	4.03	
Other underground crops 2/	2.74	8.37	3.84	
Other vegetables	2.44	8.37	3•57	
Tomatoes, tomato products	3 <b>.</b> 36	8.37	3.60	
Fruits:				
Lemons, limes	3.36	8.37	2.70	
Other	3.36	8.37	3.60	
Beverages:				
Beer	3.55	<del></del>	3.98	
Carbonated beverages	411000	***	3.87	
Coffee, soluble product	940-4	(mag	<b>3.</b> 68	
Tea, soluble product	<del>(</del>	\$+0±0	3.68	
Miscellaneous:			J	
Alcohol 3/	pa=4		gan sala	
Cocoa, chocolate	1.83	8.37	1.33	
Gelatin	3.90	9.02	-+ ) )	
Glycogen	<i>•••••</i>	<i>y</i> , 02.	4.11	
Vinegar	des ears	entered .	2.45	
Yeast	2.91	8.37	3•35	
1000 **************************	2.0 71	/ر ۵۰	2.57	

<sup>2/</sup> Vegetables such as beets, carrots, onions, parsnips, radishes.

<sup>3/ 6.93</sup> calories per gram; may not be used by the body like other sources of energy.

# Notes on Proximate, Mineral, and Vitamin Content of Foods

Water.-A column for water content has been put next to the name of the item as this information is used frequently in designating foods or in differentiating between products used by the armed forces and the comparable civilian items.

Water content includes volatile substances in addition to free water. Most of the figures for moisture have been based on change in weight of a sample before and after heating to constant weight, in some cases in a vacuum oven, in others by air drying.

Protein values have been calculated from nitrogen content, nearly always total nitrogen, by applying suitable conversion factors such as those published by Jones 4/. Counted with the true protein are other nitrogenous compounds such as free amino acids and the purine bases. In cases where the nonprotein nitrogen exclusive of amino acid nitrogen is fairly large, the figures for the protein content of the food have been adjusted to more nearly represent the sum of the true protein and amino acids present.

Fat refers in the main to ether-extractable materials, including various fatty acids, sterols, chlorophyll, and other pigments or substances of similar solubility in addition to the glyceryl esters of fatty acids or true fats.

Carbohydrate, frequently referred to as "total carbohydrate by difference," is the term that has come to be used in this country to apply to the balance of the constituents not determined directly; it is the difference between 100 percent and the sum of the percentages of protein, fat, ash, and water. In addition to the sugars and starches which the body uses almost completely it includes other forms of carbohydrate such as fiber and pentosans, which the body utilizes to a lesser degree if at all. Included also are other substances that are not carbohydrate, such as organic acids.

Calcium data shown in this table represent the total amount present in the edible portion of the product. The question of how to treat the calcium content of foods containing relatively large amounts of oxalic acid remains debatable, and the possibility that all the calcium may not be available because of the presence of oxalic acid is noted in a footnote.

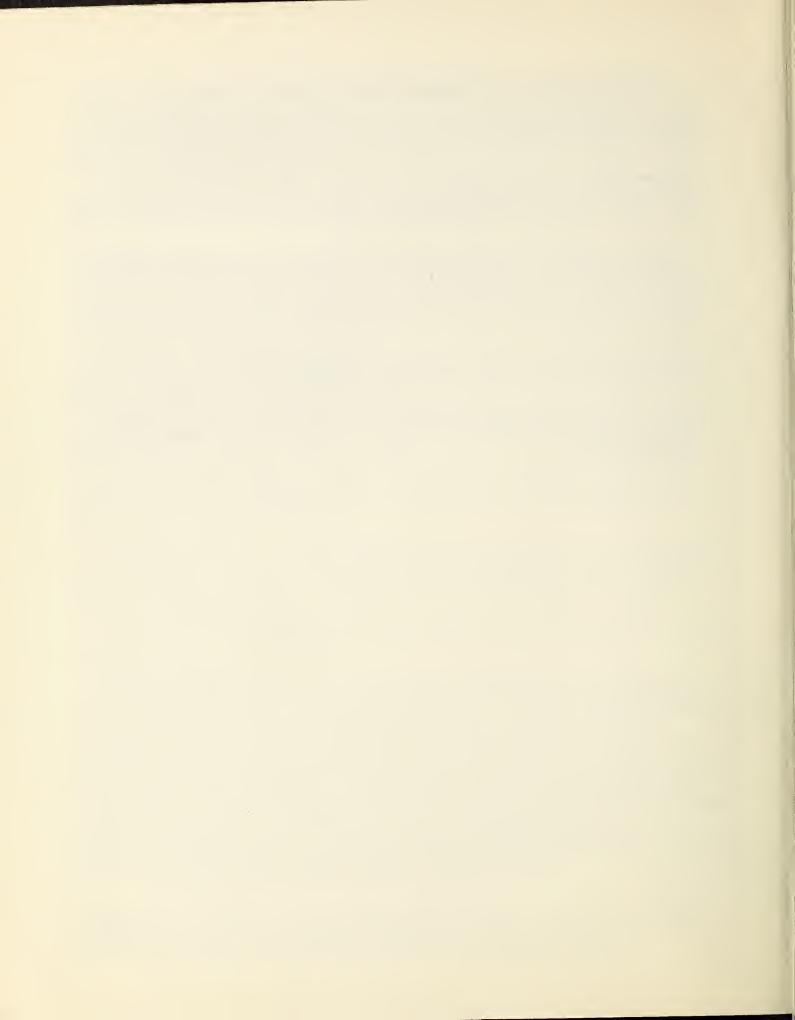
Iron content of foods reported in this table likewise applies to total iron in the edible portion rather than to available iron.

Vitamin A values in these tables are expressed in International Units. They have been based in part on biological assay and in part on physical or chemical determinations of vitamin A itself or its precursors. The physiological equivalence of vitamin A and of the carotenes having vitamin A activity has posed difficult questions. Scientists are not in agreement as to how much carotene is equivalent to an International Unit of vitamin A. For these tables, values expressed as micrograms of carotene were converted to I.U. of vitamin A on the basis that 0.6 microgram of beta carotene and 1.2 micrograms of other carotenes having vitamin A activity were equivalent to 1 I.U. of vitamin A. The problem of deriving suitable values for practical use in evaluating human diets is still further complicated by differences in availability of carotene from different food sources. Experimental work with laboratory animals and human subjects has shown that the carotene in some foods is nearly all available and in others only one-third or less is available. Future revisions of vitamin tables probably will require considerable change in vitamin A figures.

<sup>4/</sup> Jones, D. B. Factors for converting percentages of nitrogen in foods and feeds into percentages of protein. U.S. Dept. Agr. Cir. 183, 22 pp. 1941. (Sl. rev. ed.)

B vitamins. --Methods of extraction and assay for the three B vitamins (thiamine, riboflavin, niacin) included in these tables are still in the process of development. Modifications of the preferred methods are resulting in greater sensitivity and precision and consequently in better agreement among methods. Results of applying the improved procedures have not as yet been reported for a great many foods; consequently many of the values in these tables are based on older methods. There is still considerable doubt concerning the adequacy of present methods for the release of the bound forms of riboflavin; anomalous values are occasionally reported for the retention of this vitamin in foods that have been subjected to heat. Niacin values in these tables were derived from data in the literature measuring nicotinic acid, nicotinamide, and related active compounds.

Ascorbic acid values reported here have been based for the most part on determinations of reduced ascorbic acid, because this was the form reported by most workers and is the form in which nearly all of this vitamin occurs in fresh foods. Products that have undergone storage or processing, however, often contain significant quantities of the oxidized form (dehydroascorbic acid). Data on total ascorbic acid were used when authors reported values for both the reduced and the dehydro forms. Since data for estimating total ascorbic acid were far less often reported, the figures for the vitamin C value of the foods may be too low. On the other hand, for foods that contain interfering substances which react chemically like the vitamin but do not have the same physiological activity, the values may be too high. These interfering substances are found especially in foods having a high carbohydrate content that have been subjected to heat or unfavorable storage conditions. Continued research on methods and application of the improved procedures are needed to show to what extent present data need revision.











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